

NAVY TRAINING SYSTEM PLAN

FOR THE

CH-53D AND CH-53E AIRCRAFT

N88-NTSP-A-50-7604G/P

FEBRUARY 2001

CH-53D AND CH-53E AIRCRAFT

EXECUTIVE SUMMARY

This Navy Training Systems Plan (NTSP) has been developed to identify the life cycle manpower, personnel, and training requirements associated with the CH-53D Sea Stallion and CH-53E Super Stallion Aircraft. The CH-53D is used in a transport role to reduce the Marine Corps' medium-lift shortfall until the MV-22B Osprey enters service. The CH-53D is operated exclusively from Marine Corps Base (MCB), Hawaii.

The CH-53E Helicopter's primary mission is combat assault for the transportation of heavy tactical weapons, equipment, and supplies. Other missions include transportation of troops, assault support for evacuation operations, and tactical retrieval and recovery operations for disabled aircraft, equipment, and personnel. The CH-53D entered Acquisition Phase III (Production, Deployment, and Operational Support) in Fiscal Year (FY) 70 and the CH-53E entered Phase III in FY82. The Marine Corps will continue to use the CH-53E extensively for its various missions. Active Marine CH-53E squadrons are based at Marine Corps Air Station (MCAS) New River, North Carolina; MCAS Miramar, California; and MCAS Quantico, Virginia. Marine Reserve CH-53E squadrons operate from bases at Willow Grove, Pennsylvania, and Edwards Air Force Base, California. The Navy now flies the MH-53E Helicopter exclusively, having ceased operation of the CH-53E.

The CH-53D is currently planned to remain in the fleet until at least 2005 and the CH-53E until 2025. Fleet utilization beyond these dates will depend on the integration of the MV-22 and the Joint Heavy Lift Replacement Aircraft. Several modifications to the CH-53E Helicopter are planned to be incorporated over the next few years. This series of Engineering Change Proposals (ECP), which began in August 1995, includes the installation of the AN/ARN-151 Global Positioning System (GPS), Ground Proximity Warning System (GPWS), AN/ARC-210(V) Electronic Counter-Countermeasures (ECCM) Radio System, Helicopter Night Vision System (HNVS), Night Vision Goggles (NVG) Head-Up Display (HUD), the Integrated Mechanical Diagnostic (IMD) Health and Usage Monitoring System (HUMS), and other modifications to the helicopter. CH-53E training devices will also be modified with these new systems to provide accurate training to the fleet with new Operator and Maintenance Trainers added during FY00.

Marine Corps CH-53D pilot training is conducted at Marine Helicopter Training Squadron (HMT) 301, MCB Hawaii. CH-53E pilot and aircrewman training is conducted at HMT 302, MCAS New River, North Carolina. There is no requirement to train Navy pilots and aircrewman for the CH-53E. Organizational level maintenance training is conducted at HMT 302 Fleet Replacement Enlisted Skills Training (FREST).

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LIST OF ACRONYMS

ADF	Automatic Direction Finder
AFC	Air Frames Change
AFCS	Automatic Flight Control System
AMTCS	Aviation Maintenance Training Continuum System
ANVIS	Aviator's Night Vision Imaging System
APT	Aircrew Procedures Trainer
CINCLANTFLT	Commander In Chief, Atlantic Fleet
CINCPACFLT	Commander In Chief, Pacific Fleet
CMC	Commandant of the Marine Corps
CMT	Composite Maintenance Trainer
CNI	Communications, Navigation, and Identification
CNO	Chief of Naval Operations
ECCM	Electronic Counter-Countermeasures
ECP	Engineering Change Proposal
FLETRACEN	Fleet Training Center
FLIR	Forward Looking Infrared Radar
FMS	Foreign Military Sales
FREST	Fleet Replacement Enlisted Skills Training
FRS	Fleet Readiness Squadron
FY	Fiscal Year
GPS	Global Positioning System
GPWS	Ground Proximity Warning System
HF	High Frequency
HMH	Marine Heavy Helicopter Squadron
HMT	Marine Helicopter Training Squadron
HMX	Marine Helicopter Development Squadron
HNVS	Helicopter Night Vision System
HUD	Head-Up Display
HUMS	Health and Usage Monitoring System
IFF	Identification Friend or Foe
ILS	Instrument Landing System
ILSP	Integrated Logistics Support Plan

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LIST OF ACRONYMS

IMC	Integrated Maintenance Concept
IMD	Integrated Mechanical Diagnostic
ISD	Instructional System Development
MALS	Marine Aviation Logistics Squadron
MATMEP	Maintenance Training Management and Evaluation Program
MCAS	Marine Corps Air Station
MCB	Marine Corps Base
MOS	Military Occupational Specialty
MTIP	Maintenance Training Improvement Program
MTU	Maintenance Training Unit
NA	Not Applicable
NAMP	Naval Aviation Maintenance Program
NAMTRAGRU DET	Naval Air Maintenance Training Group Detachments
NAMTRAU	Naval Air Maintenance Training Unit
NATOPS	Naval Air Training and Operating Procedures Standardization
NATTC	Naval Air Technical Training Center
NAVAIRSYSCOM	Naval Air System Command
NAVAVNDEPOT	Naval Aviation Depot
NAVICP	Naval Inventory Control Point
NAVPERSCOM	Naval Personnel Command
NDI	Non-Destructive Inspection
NNSY	Norfolk Naval Ship Yard
NTP	Navy Training Plan
NTSP	Navy Training System Plan
NVG	Night Vision Goggles
OFT	Operational Flight Trainer
OPNAV	Office of the Chief of Naval Operations
OPNAVINST	Office of the Chief of Naval Operations Instruction
PJT	Practical Job Trainer
PM	Preventive Maintenance
PMA	Program Manager, Air
RFI	Ready For Issue
RFT	Ready For Training

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LIST OF ACRONYMS

ROC/POE	Required Operational Capability/Projected Operating Environment
SRA	Shop Replaceable Assembly
TD	Training Device
TFS	Total Force Structure
T/O	Table of Organization
TS	Test Set
TTE	Technical Training Equipment
UHF	Ultra High Frequency
VHF	Very High Frequency
VMAT	Fixed Wing Marine Attack Training Squadron
VOR	VHF Omnidirectional Radio
WRA	Weapon Replaceable Assembly
WST	Weapon System Trainer

CH-53D AND CH-53E AIRCRAFT

PREFACE

This Proposed Navy Training System Plan (NTSP) for the CH-53D and CH-53E Helicopter has been prepared to update the Draft NTSP for the CH-53E Helicopter (NTP A-50-7604G/D) dated June 2000. This update complies with guidelines set forth in the Navy Training Requirements Documentation Manual, Office of the Chief of Naval Operations (OPNAV) Publication P-751-1-9-97.

This NTSP addresses the consolidation of pilot, aircrew, and organizational level maintenance training to a single site, Fleet Readiness Squadron (FRS) Marine Helicopter Training Squadron (HMT) 302, at Marine Corps Air Station (MCAS) New River, North Carolina. The FRS consolidation is a result of the CH-53D transition to the MV-22 aircraft starting in Fiscal Year (FY) 04. HMT-301 will subsequently be decommissioned when transition is completed. Specifically, this NTSP addresses:

- Current manpower and training requirements
- The current incorporation status of several Engineering Change Proposals (ECP) upgrading both the CH-53D and CH-53E
- All Training Devices (TDs) have been verified during course verification and extensive changes from previous iterations incorporated
- Current points of contact

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

- 1. **Nomenclature-Title-Acronym.** CH-53D and CH-53E Aircraft
- 2. **Program Element.** 26122M

B. SECURITY CLASSIFICATION

- 1. **System Characteristics** Unclassified
- 2. **Capabilities** Unclassified
- 3. **Functions**..... Unclassified

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

- OPNAV Principal Official (OPO) Program Sponsor..... CNO (N880F3)
- OPO Resource Sponsor CNO (N880F3)
- Marine Corps Program Sponsor..... CMC (ASL-33)
- Developing Agency..... NAVAIRSYSCOM (PMA261)
- Training Agency CINCLANTFLT
CINCPACFLT
CNET
CMC
- Training Support Agency..... NAVAIRSYSCOM (PMA205)
- Manpower and Personnel Mission Sponsor..... CNO (N12)
- Director of Naval Training..... CNO (N7)
- Chief of Naval Personnel.....NAVPERSCOM (PERS-4, PERS-404)
- Marine Corps Force Structure..... MCCDC (C53)

D. SYSTEM DESCRIPTION

1. Operational Uses. The CH-53E Super Stallion is a heavy lift, multi-mission helicopter. The Marine Corps uses the CH-53E as a combat assault aircraft for the transportation of heavy tactical weapons, cargo, and equipment. External cargo can be suspended from hooks using either single or two-point suspension systems. Additional functions include transportation of troops, assault support for evacuation operations, and tactical retrieval and recovery operations for disabled aircraft, equipment, and personnel. The Marine Corps will continue to use the CH-53E extensively for its various missions. CH-53E squadrons are based at the following locations:

Active Duty Squadrons:

- MCAS New River, North Carolina
- MCAS Miramar, California

Reserve Squadrons:

- NAS Willow Grove, Pennsylvania
- Edwards Air Force Base, California

The CH-53D Sea Stallion, in service since 1968, is used in the transport role to reduce the Marine Corps' medium-lift shortfall until the MV-22B Osprey enters service. The CH-53D squadrons are based at Marine Corps Base (MCB), Hawaii.

The Navy does not fly the CH-53D or CH-53E Helicopters, only the MH-53E model (addressed in a separate NTSP).

2. Foreign Military Sales. Foreign Military Sales (FMS) are included in the CH-53D and CH-53E Program. For information on FMS, contact Program Manager, Air (PMA) 261.

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST. Technical Evaluation was conducted at the former Naval Air Test Center Patuxent River, Maryland, and was successfully completed in 1978. Operational Evaluation was conducted at Marine Medium Helicopter Experimental (HMX) 1, Quantico, Virginia, and was successfully completed in May 1979.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. Not Applicable (NA)

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. The CH-53E heavy lift helicopter is an upgrade of the twin engine CH-53D series aircraft. With its three turboshaft engines, the CH-53E is capable of carrying a 16-ton payload 50 nautical miles or a 10-ton payload 500 nautical miles. The CH-53E is capable of lifting all Navy and Marine Corps fighter, attack, and electronic warfare aircraft. In-flight refueling is accomplished using a KC-130 aircraft. The CH-53E is operationally compatible

with several classes of Navy ships, including aircraft carriers and amphibious assault ships. The CH-53E can accommodate up to 55 combat-equipped troops. The CH-53D can transport 37 Marines or handle 24 litter patients and four attendants and is capable of lifting 8,000 pounds internally or externally under normal conditions, but can lift an additional 4,000 pounds in certain situations.

Several changes are now being incorporated in the CH-53E Helicopter, including the following:

- AN/ARC-210(V) Electronic Counter-Countermeasures (ECCM) Radio System
- Ground Proximity Warning System (GPWS)
- AN/ARN-151 Global Positioning System (GPS)
- Helicopter Night Vision System (HNVS)
- Night Vision Goggles (NVG)
- Head-Up Display (HUD)

Five CH-53E Helicopters are scheduled to receive the Integrated Mechanical Diagnostic (IMD) and Health and Usage Monitoring System (HUMS) for evaluation. Installation began in March 2000 and will be completed by second quarter FY01. Minor modifications include helicopter compatibility exterior lighting for use with the NVG, crash attenuating seats, a tail rotor driveshaft disconnect coupling monitor, and #2 engine fire detector.

a. CH-53 Major Systems. The CH-53 major systems are briefly described below.

SYSTEM	CH-53E	CH-53D
Power Plant	Three T64-GE-416 and -416A turboshaft engines	Two T64-GE-413 turboshaft engines
Rotor Blades	Seven main rotor blades and four tail rotor blades	Six all-metal main rotor blades and four tail rotor blades
Fuel	Onboard fuel supply Provision for two external auxiliary fuel tanks Helicopter in-flight refuel and air-to-air refueling capability	Onboard fuel supply Provision for two external auxiliary tanks No air-to-air refueling capability Mark 105 Refueling System permits one aircraft to refuel another while on the ground

SYSTEM	CH-53E	CH-53D
Automatic Flight Control System (AFCS)	Digital AFCS system using two digital onboard computers and a four axis autopilot	Pitch and roll channels that comprise the AFCS systems. AFCS 1 and AFCS 2 are redundant with a pitch and roll channel for each system
Navigation	<p>LTN-211 OMEGA System or AN/ARN-151(V)3 GPS (<i>see notes following this table</i>)</p> <p>Two AN/APN-171(V) Radar Altimeters</p> <p>AN/ARN-118(V) TACAN</p> <p>AN/ARN-89A Automatic Direction Finder (ADF)</p> <p>VIR-31A Very High Frequency (VHF) Omnidirectional Radio (VOR)</p> <p>Instrument Landing System (ILS) navigation system and vertical gyro system</p>	<p>LTN 211 OMEGA System or AN/ARN-151(V)3 GPS (<i>see notes following this table</i>)</p> <p>AN/APN-171(V) Radar Altimeter</p> <p>AN/ARN-52(V) TACAN</p> <p>AN/ARN-59 LF ADF</p> <p>APN-154 Radar Beacon Set</p>
Communication	<p>Two AN/ARC-182(V) VHF/Ultra High Frequency (UHF) Radios or AN/ARC-210(V) ECCM Radios (<i>see notes following this table</i>)</p> <p>AN/ARC-174A(V)2 or AN/ARC-94 High Frequency Radio Sets</p> <p>AN/APX-72 Identification Friend or Foe (IFF) Transponder</p> <p>KIT-1C/TSEC Computer Transponder</p> <p>TSEC/KY-58 Secure Voice Data Set</p> <p>AN/AIC-14A Intercom</p>	<p>AN/ARC-182(V) VHF/UHF Radios or AN/ARC-210(V) ECCM Radio (<i>see notes following this table</i>)</p> <p>ARC-94 High Frequency (HF) Communications System</p> <p>APX-64(V) IFF Radar Identification Set</p> <p>AAU-21/A Altitude Indicator Encoder</p> <p>Juliet-28 Speech Security System</p>

SYSTEM	CH-53E	CH-53D
Helicopter Night Vision System	AN/AAQ-16B Forward Looking Infrared Radar (FLIR) AN/APN-217(V)3 Doppler Radar <i>(see notes following this table)</i>	NA

Note 1: The LTN-211 is being replaced by the AN/ARN-151(V)3 GPS. The GPS integration into the CH-53 will provide worldwide navigation without land-based transmitter stations. Estimated completion date is FY01.

Note 2: The AN/ARC-182(V) Radio is being replaced by the AN/ARC-210(V) ECCM Radio System. The AN/ARC-210(V) ECCM Radio provides normal and secure communication in the Amplitude Modulation and Frequency Modulation modes in both UHF and VHF bands. Installations began in FY95 and are scheduled to be completed in FY01. The AN/ARC-210(V) is compatible with the TSEC/KY-58, has frequency hopping jam-resistant HAVEQUICK and Single Channel Ground and Airborne Radio System (SINCGARS) capabilities, and is inter-operable with other radio systems employed by the Air Force and Army.

Note 3: The HNVS will provide motion vector cues to the NVG HUD.

b. Block Upgrade Modification. A block upgrade modification for the CH-53E was incorporated consisting of six ECPs. The ECPs encompass .50-caliber armament provisions, in-flight hydraulic servicing, improved chip detectors, composite tail rotor blade, main rotor pylon sliding cover latches, and additional cabin egress lighting.

2. Physical Description. The following are the CH-53 dimensions:

AIRCRAFT	LENGTH	HEIGHT	WEIGHT
CH-53E	Overall - 99 feet, 0.5 inches Folded - 60 feet, 6 inches	Overall - 28 feet, 5 inches Folded - 18 feet, 7 inches	Empty - 33,236 pounds Loaded - 73,500 pounds
CH-53D	Overall - 73 feet, 6 inches Folded - 56 feet, 6 inches	Overall - 24 feet, 11 inches Folded - 16 feet, 7 inches	Empty - 24,606 pounds Loaded - 42,000 pounds

3. New Development Introduction. Over the next few years, several modifications to the CH-53 Helicopter are scheduled. ECPs for the CH-53E include the installation of the AN/ARN-151 GPS, AN/ARC-210(V) ECCM Radio System, HNVS, Aviator's Night Vision Imaging System (ANVIS)/HUD, IMD, and HUMS. ECPs for the CH-53D include the AN/ARC-210(V) ECCM Radio System, AN/ARN-151 GPS, and Crash Attenuating Troop Seats. These

modifications began as early as FY95. The AN/ARC-210(V) upgrade will be completed in FY01 and all other modifications should be completed by FY03. CH-53D and CH-53E training devices will also be modified with these new systems to provide accurate training to the fleet. New Operator and Maintenance Trainers will be added during FY00.

4. Significant Interfaces. NA

5. New Features, Configurations, or Material. The IMD HUMS will be incorporated into five CH-53E Helicopters for evaluation. Currently a letter of agreement has been made with B.F. Goodrich for research and development. The IMD HUMS consists of an airborne system and a ground-based system, both implemented with the maximum practical open systems architecture. The architecture enables efficient data and information exchange between the two systems and among other ground stations. The airborne system consists of the original manufacture helicopter fitted with additional hardware and instrumentation. The hardware consists of a Main Processing Unit, an Optical Tracker, weight-reducing Remote Data Concentrators, a Cockpit Display Unit, and a Data Transfer Unit. Additionally, at least 30 and up to 70 sensors are mounted on the engine, drive train, and rotor components to provide condition indicators. The Ground Based System is made up of a series of networked ground stations which configure flight-specific analysis to support either pilot or maintainer queries. Five HMT-302 CH-53E Helicopters will have the system installed for testing and evaluation. No additional manpower will be required to support this system.

H. CONCEPTS

1. Operational Concept. A minimum crew of three, comprised of one Pilot, one Co-Pilot, and one Crew Chief, operates the CH-53 Helicopter. For Marine Corps Low Visibility and combat missions, additional crewmen are necessary. The CH-53 Helicopter is capable of handling a variety of missions that are consistent with operational concepts outlined in the Required Operational Capability and Projected Operating Environment (ROC/POE) for the operating units.

2. Maintenance Concept. The maintenance concept for the CH-53E and CH-53D follows the general direction and guidance provided by the Naval Aviation Maintenance Program (NAMP), Office of the Chief of Naval Operations Instruction (OPNAVINST) 4790.2 Series. The NAMP prescribes the concept of three levels of maintenance: organizational, intermediate, and depot. This division establishes a clear responsibility by level; centralizes assets and maintenance functions with regard to complexity, depth, scope, and range of work; and establishes an organizational structure for data collection to ensure the most economical and efficient use of resources and effective NAMP management.

a. Organizational. CH-53D and CH-53E operating units perform daily organizational level maintenance in support of their own operations. These actions encompass inspections, servicing, handling, removal and replacement of Weapon Replaceable Assemblies (WRA) and major aircraft components, on-equipment corrective maintenance, and incorporation of selected Technical Directives.

(1) Preventive Maintenance. Periodic inspections and servicing of equipment are accomplished in accordance with existing Maintenance Requirement Cards.

(2) Corrective Maintenance. CH-53D and CH-53E organizational level maintenance personnel fault isolate to a defective WRA. To aid in this effort, the In-flight Blade Inspection System and the AFCS systems use Built-In Test for primary fault isolation to a WRA. Faulty WRAs and components are removed and replaced using standard hand tools. Some larger WRAs (i.e., engines and rotor blades) require the use of non-complex support equipment. Faulty WRAs are forwarded to the Marine Aviation Logistics Squadron (MALS) for repair. Organizational level maintenance personnel may also be authorized in approved publications to initiate repairs such as stop drilling of airframe skin cracks, blending of minor nicks in engine intakes, etc.

b. Intermediate. CH-53D and CH-53E intermediate level maintenance actions are performed by MALSs personnel in support of organizational activities. These actions include test, repair, and modification of aeronautical equipment, calibration of support equipment, and disposition of assets from stricken aircraft. Repair of faulty WRAs is accomplished through the use of appropriate test equipment. The following table illustrates the intermediate level repair requirements by system:

INTERMEDIATE LEVEL REPAIR REQUIREMENTS BY SYSTEM

SYSTEM	INTERMEDIATE MAINTENANCE REQUIREMENTS
T64-GE-416 or T64-GE-416A	First degree repair, with test cell facility
T64-GE-413	First degree repair, with test cell facility
AN/ARC-94 HF Radio	Fault isolate using 6789-1 Test Set (TS), replace faulty components, and certify Ready For Issue (RFI)
AN/ARC-174 (V) HF Radio	Fault isolate using locally manufactured TS, replace faulty SRAs, align as required, RFI unit
AN/ARC-182 (V) Radio	Fault isolated all WRAs and selected SRAs using the AN/ARM-200, TS-4110, or TG-8300 test sets, RFI unit
AN/ARC-210(V), UHF/VHF Comm	No intermediate level repair, test and check only; WRAs repaired at Naval Aviation Depot (NAVAVNDEPOT)
TSEC/KY-28 Speech Security	Fault isolate using a multi-meter, replace faulty component, RFI unit

SYSTEM	INTERMEDIATE MAINTENANCE REQUIREMENTS
AN/ARA-50 UHF-ADF	Fault isolate using AN/ARM-102 TS with the AN/ARM-165 or AN/ARM-200 TS, replace faulty SRAs, align as required, RFI unit
AN/ARN-89 LF/ADF	Fault isolate using MK-994/AR TS, replace faulty SRAs, align as required, RFI unit
AN/ARN-118(V) TACAN	Fault isolate using AN/ARM-155 and AN/ARM-156 TS, replace faulty SRAs, align as required, RFI unit
AN/ARN-52(V) TACAN	Fault isolate using AN/ARM-155 and AN/ARM-156 TS, replace faulty SRAs, align as required, RFI unit
VIR-31A VOR/ILS	Test and check only using AN/ARN-126 TS, RFI unit or BCM; no repair authorized
AN/APX-72 IFF Transponder	Fault isolate using AN/UPM-155 TS, remove and replace faulty SRAs, RFI unit, repair SRAs using AN/UPM-239A TS
AN/APX-64(V) IFF Transponder	Fault isolate using AN/UPM-155 TS, remove and replace faulty SRAs, RFI unit, repair SRAs using AN/UPM-239A TS
AN/APN-154 Radar Beacon	Test and check using C-9154 and C6690A/APM-231 TS, replace faulty SRAs, RFI unit; no SRA repair
AN/ARN-151 GPS	Fault isolate using AN/GSM-336(V)3, replace faulty SRAs, RFI unit; SRAs sent to contractor for repair
AN/AAQ-16B FLIR	No intermediate level repair; WRAs returned to contractor for repair

c. Depot. CH-53E depot level maintenance actions are those requiring major overhaul or a complete rebuilding, manufacturing, or modification of parts, assemblies, subassemblies, and end items. Depot maintenance is performed at NAVAVNDEPOT Cherry Point, North Carolina.

d. Interim Maintenance. NA

e. Life Cycle Maintenance Plan. The CH-53E will transition to a new maintenance concept named the Integrated Maintenance Concept (IMC). The IMC is achieved through the application of Reliability Centered Maintenance principles that change the focus from a restoration maintenance program, i.e., Aircraft Service Period Adjustment and Standard Depot

Level Maintenance, to a prevention maintenance program. This concept will repackage all CH-53E Preventive Maintenance (PM) tasks to integrate organizational, intermediate, and depot level maintenance to be performed on-site between deployments. Organizational activities will continue to perform PM while deployed. However, integrated maintenance teams will perform the bulk of the inspections and PM tasks. The H-53 Aircraft will go through a prototype IMC beginning in FY01, and should have fully implemented the IMC by third quarter FY02.

3. Manning Concept. Total preventive and corrective maintenance requirements and the operating unit's ROC/POE drive qualitative and quantitative manpower requirements for the CH-53D and CH-53E. Squadron manpower requirements are dictated by the Direct Maintenance Man-Hours per Flight Hour and the deployment workload, which demands 24 hours of organizational level servicing during cyclic flight operations. The basic duty conditions consist of two sections, each responsible for a twelve-hour period. The manpower requirements for each activity are contained in the individual Table of Organization (T/O). No additional manpower requirements or Military Occupational Specialty (MOS) changes are identified for support of the upgrades and modifications to the CH-53.

The source documents for the respective activity manpower requirements are listed below.

T/O NUMBER	TITLE	DATE
8960E	Marine Heavy Helicopter Squadron (HMH), CH-53E East Coast	20 Jan 90
8960A	HMH 772	29 Jan 90
8591E	HMT 302	10 Jan 90
8990E	HMX 1	26 Jul 93
8950X	HMH, CH-53D	29 Jan 90
8960W	HMH, CH-53E West Coast	29 Jan 90
8960B	HMH 769	29 Jan 90
8593W	HMT 301	Feb 99
8910E	MALS, East	26 Mar 96
8999D	Site Support Willow Grove, Pennsylvania	Feb 99
8910W	MALS West	26 Mar 96

T/O NUMBER	TITLE	DATE
8910X	Marine Aviation Logistics Support Element Kaneohe, Hawaii	4 Dec 98
8999B	Site Support Edwards Air Force Base, California	Feb 99

4. Training Concept. The CH-53E training concept is designed to ensure that a clearly defined training program is available to provide proficient fleet operational and maintenance training for pilots and maintenance personnel. A systematic approach to training was applied at the onset of the CH-53E program and the Instructional System Development (ISD) process has been applied throughout. ISD defines weapon system training requirements in terms of learning objectives. The training requirement is satisfied through a systematic approach designed as the most cost effective life cycle solution. FRS training is conducted with the intent of providing proficient CH-53 pilots in adequate numbers to support fleet operational requirements. Pilot and Aircrew training takes place at HMT 302, MCAS New River, North Carolina. Organizational level maintenance personnel are trained at HMT 302 Fleet Replacement Enlisted Skills Training (FREST) New River. Some intermediate maintenance training will be conducted at other sites. Current courses being taught will be, or have been, modified to incorporate the upgraded systems and ECPs affecting the CH-53D and CH-53E Helicopters.

Note: The Marine NAMTRAGRU schoolhouses are expected to merge into one command during 2001. After the merger occurs the change will be included in the next iteration of this NTSP.

a. Initial Training. All initial training for the CH-53D and CH-53E Helicopters has been completed and is not included in this document.

b. Follow-on Training. The following is a summary of the applicable training required.

(1) Operator

Title **CH-53 Basic Pilot Training**
CIN MC-1 (See note)
Model Manager ... HMT 302, MCAS New River

Description This course provides the Fleet Replacement Pilot knowledge and skills including CH-53 and Weapon Systems Employment, Flight Training, Crew Tactics and Safety, Communications and Navigation, and Naval Air Training and Operating Procedures Standardization (NATOPS) in the Heavy Helicopter Environment. Upon completion, the student will be able to perform as a CH-53 Pilot in a squadron environment.

Location HMT 302, MCAS New River

Length 131 days

RFT date Currently available

Skill identifier ° MOS 7564
° MOS 7566

TTE/TD ° CH-53D Operational Flight Trainer (OFT) 2F121
° Aircrew Procedures Trainer (APT) 2F171 (FY01)
° Weapon System Trainer (WST) 2F174

Prerequisites ° Designated Marine Helicopter Pilot
° Secret clearance

Note: The pilot training CINs are not contained in the OPNAV Aviation Training Management System or Catalog of Navy Training Courses. The Pilot Flight Training syllabus is set forth in the Marine Corps Training and Readiness Manual.

Title CH-53 Transition Pilot Training

CIN MC-2 (See note above)

Model Manager ... HMT 302, MCAS New River

Description This course provides the Transition Fleet Replacement Pilot knowledge and skills including CH-53 and Weapon Systems Employment, Flight Training, Crew Tactics and Safety, Communications and Navigation, and NATOPS in the Heavy Helicopter Environment. Upon completion, the student will be able to perform as a CH-53 Pilot in a squadron environment.

Location HMT 302, MCAS New River

Length 96 days

RFT date Currently available

Skill identifier ° MOS 7564
 ° MOS 7566

TTE/TD ° CH-53D OFT 2F121
 ° APT 2F171 (FY01)
 ° WST 2F174

Prerequisites ° Designated Marine Helicopter Pilot
 ° MC-1, CH-53 Basic Pilot Training
 ° Secret clearance

Title CH-53 Conversion Pilot Training

CIN MC-3 (See note above)

Model Manager ... HMT 302, MCAS New River

Description This course provides the Conversion Fleet Replacement Pilot knowledge and skills including CH-53 and Weapon Systems Employment, Flight Training, Crew Tactics and Safety, Communications and Navigation, and NATOPS in the Heavy Helicopter Environment. Upon completion, the student will be able to perform as a CH-53 Pilot in a squadron environment.

Location HMT 302, MCAS New River

Length 68 days

RFT date Currently available

Skill identifier..... ° MOS 7564
 ° MOS 7566

TTE/TD ° CH-53D OFT 2F121
 ° APT 2F171 (FY01)
 ° WST 2F174

Prerequisites ° Designated Marine Helicopter Pilot
 ° MC-1, CH-53 Basic Pilot Training
 ° Secret clearance

Title CH-53 Refresher Pilot Training

CIN MC-4 (See note above)

Model Manager .. HMT 302, MCAS New River

Description This course provides the Fleet Replacement Pilot refresher training in the CH-53 and Weapon Systems Employment, Flight Training, Crew Tactics and Safety, Communications and Navigation, and NATOPS in the Heavy Helicopter Environment. Upon completion, the student will be able to perform as a CH-53 Pilot in a squadron environment.

Location HMT 302, MCAS New River

Length 47 days

RFT date Currently available

Skill identifier ° MOS 7564
° MOS 7566

TTE/TD ° CH-53D OFT 2F121
° APT 2F171 (FY01)
° WST 2F174

Prerequisites ° Designated Marine Helicopter Pilot
° MC-1, CH-53 Basic Pilot Training
° Secret clearance

Title CH-53E Crew Chief Training Syllabus

CIN M-601-2722

Model Manager .. HMT 302, MCAS New River

Description This course provides training in the duties of a CH-53E Aircraft Crew Chief. It includes:

- ° Instruction in helicopter maintenance
- ° Flight line procedures
- ° Pre-flight and post-flight inspections
- ° All other required inspections
- ° Aircraft taxi and servicing for qualified persons

Upon completion, the student will be able to perform as a CH-53E Aircraft Crew Chief in a squadron environment.

Location HMT 302, MCAS New River

Length 165 days

RFT date Currently available

Skill identifier MOS 6173

TTE/TD ° APT 2F171 (FY01)
 ° WST 2F174
 Prerequisite None

(2) Organizational Maintenance

Title **CH-53E Communications/Electrical System Organizational Maintenance**

CIN M-102-2731

Model Manager .. HMT 302 FREST, MCAS New River

Description This course provides training for newly assigned personnel in:

- ° All aspects of the communications systems
- ° Navigation
- ° Identification
- ° Electrical
- ° Automatic flight control systems of the CH-53E, including:
 - System characteristics
 - Component location
 - Operating procedures
 - Troubleshooting procedures
 - Safety procedures

Upon completion, the student will be able to perform organization level maintenance on the CH-53E communications and electrical systems in a squadron environment under limited supervision.

Location HMT 302 FREST, MCAS New River

Length 130 days

RFT date Currently available

Skill identifier MOS 6323

TTE/TD..... ° CH-53E Composite Maintenance Trainer (CMT)
 ° CH-53D AFCS Maintenance Trainer
 ° CH-53E AFCS Maintenance Trainer
 ° CH-53E Fuel System Trainer
 ° CH-53A/D Main Gear and Ramp Trainer
 ° CH-53E Communication, Navigation, and Identification (CNI) Trainer
 ° CH-53A/D Electrical System Trainer

Prerequisite..... C-100-2018, Avionics Technician O Level Class A1

Title **CH-53E Power Plants and Related Systems Maintenance**

CIN M-601-2720

Model Manager ... HMT 302 FREST, MCAS New River

Description This course provides the Mechanical Technician knowledge and skills related to CH-53E power plants and related systems, including:

- ° Basic helicopter and general safety
- ° Troubleshooting
- ° Maintenance procedures for:
 - Auxiliary power plant and fuel system
 - Power plant system
 - Transmission and rotor systems
 - Flight control system
 - Rotor and rotor brake
 - Blade fold, pylon, and cargo handling systems
- ° Publications

Upon completion, the student will be able to perform CH-53E power plants and related systems organizational level maintenance in a squadron environment under limited supervision.

Location HMT 302 FREST, MCAS New River

Length 86 days

RFT date Currently available

Skill identifier MOS 6113

TTE/TD ° CH-53 Practical Job Trainer (PJT)
 ° CH-53E CMT
 ° CH-53E Fuel System Trainer
 ° Auxiliary Power Plant Trainer
 ° Rotor Head Trainer

Prerequisite None

Title Helicopter Airframe Mechanic CH-53

CIN M-602-2781

Model Manager ... HMT 302 FREST, MCAS New River

Description This course provides the Airframes Mechanic CH-53 structures, hydraulics, and related systems knowledge and skills including:

- ° Theory of operation
- ° Basis for diagnosis
- ° Proper operational procedures
- ° Troubleshooting
- ° Organizational level maintenance

Upon completion, the student will be able to perform organizational level maintenance on the CH-53 structures, hydraulics, and related systems in a squadron environment under limited supervision.

Location HMT 302 FREST, MCAS New River

Length 100 days

RFT date Currently available

Skill identifier MOS 6153

TTE/TD ° CH-53 PJT
 ° CH-53E CMT
 ° CH-53A/D Main Gear and Ramp Trainer
 ° Rotor Head Trainer
 ° CH-53A/D Hydraulic System Trainer

Prerequisites ° C-603-0175, Aviation Structural Mechanic (Structures and Hydraulic) Common Core Class A1
 ° C-603-0176, Aviation Structural Mechanic (Structures and Hydraulic) Organizational Level Strand Class A1

Title **Rotary Wing (H-1, CH-46, CH-53)/OV-10 Armament Systems Maintenance**

CIN M-646-2044

Model Manager .. HMT 303 FREST, MCAS Camp Pendleton, California

Description This track provides the Ordnance Technician knowledge and skills which include:

- Maintenance procedures of the OV-10
- Maintenance procedures of the UH-1
- Maintenance procedures of the AH-1W

Upon completion, the student will be able to perform all aspects of ordnance maintenance in a squadron environment under limited supervision.

Location HMT 303 FREST, MCAS Camp Pendleton

Length 65 days

RFT date Currently available

Skill identifier MOS 6531

TTE/TD ◦ Gun Assembly, Machine; Aircraft 7.62MM
◦ Guided Missile, Training ATM-9L

Prerequisite C-646-2012, Aviation Ordnanceman Airwing Strand Class A1

(3) Intermediate Maintenance

Title **Microminiature Electronics Repair**

CIN A-100-0073

Model Manager ... Fleet Training Center (FLETRACEN) San Diego, California

Description	<p>This course provides qualified maintenance personnel with sufficient knowledge and skill to perform high quality and high reliability solder connections on complex circuit card assemblies at the organizational and intermediate maintenance levels. Also included:</p> <ul style="list-style-type: none"> ◦ 2M program overview ◦ Program safety ◦ 2M station operation and maintenance ◦ Microrepair involving high density component packaging ◦ Multi-layer conductor and laminate repair ◦ Flex-print repair ◦ Edgelighted panel repair ◦ Surface mount technology repair ◦ Microminiature repair also covers electrostatic discharge and handling procedures to minimize electrostatic discharge risks to the circuit card assemblies. <p>Upon completion, the student will be able to perform microminiature electronics repairs in an intermediate maintenance shop under limited supervision.</p>
Locations	<ul style="list-style-type: none"> ◦ FLETRACEN Norfolk, Virginia ◦ Fleet Training Group Pearl Harbor, Hawaii ◦ FLETRACEN San Diego
Length	12 days
RFT date	Currently available
Skill identifier	MOS 6423
TTE/TD	No major Technical Training Equipment (TTE) or TD is required to support this course.
Prerequisites	<ul style="list-style-type: none"> ◦ A-100-0072, Miniature Electronics Repair ◦ Confidential clearance
Title	Aircraft Communications Equipment Intermediate Maintenance
CIN	M-102-6412
Model Manager ..	Fixed Wing Marine Attack Training Squadron (VMAT) 203 FREST, MCAS Cherry Point, North Carolina

Description This course provides the Electronics Technician knowledge and skills including:

- Aircraft transceivers and receivers theory of operation
- Troubleshooting procedures
- Maintenance of the:
 - AN/ARC-159 Radio
 - AN/ARC-182 Radio
 - AN/ARC-131 Radio
 - RT-648 ARC-94 Radio
- Shop safety
- Publications
- Maintenance documentation

Upon completion, the student will be able to perform intermediate level maintenance on communications and navigation systems repairs in a shop environment under limited supervision.

Location VMAT 203 FREST, MCAS Cherry Point

Length 82 days

RFT date Currently available

Skill identifier MOS 6412

TTE/TD ◦ AN/ARC-159 Radio
 ◦ AN/ARC-182 Radio
 ◦ AN/ARC-131 Radio
 ◦ RT-648 ARC-94 Radio

Prerequisites C-100-2017, Avionics Technician I level Class A1
 Confidential clearance

Title Aircraft Navigation Systems Equipment Intermediate Maintenance

CIN M-102-6413

Model Manager .. VMAT 203 FREST, MCAS Cherry Point

Description This course provides the Electronics Technician knowledge and skills including:

- Theory of operation of the AN/ARC-118, AN/APX-72, and the AN/APN-194
- Aircraft transponders
- TACANs
- Radar identification
- Radar altimeters
- Shop safety
- Publication usage
- Maintenance documentation

Upon completion, the student will be able to perform intermediate level maintenance on the aircraft navigation system repairs in a shop environment under limited supervision.

Location VMAT 203 FREST, MCAS Cherry Point

Length 65 days

RFT date Currently available

Skill identifier MOS 6413

TTE/TD..... ◦ AN/ARC-118 TACAN
◦ AN/APX-72 Transponder
◦ AN/APN-194 Electronic Altimeter Set

Prerequisites ◦ C-100-2017, Avionics Technician I Level Class A1
◦ Confidential clearance

Title Helo Deceptive Electronic Countermeasures Intermediate Maintenance

CIN M-102-6483

Model Manager .. VMAT 203 FREST, MCAS Cherry Point

Description This course provides the Electronics Technician knowledge and skills in the test and repair of the components that make up the deceptive electronic countermeasure package used on rotary wing aircraft, including training in the operation and maintenance of the:

- AN/ALE-39 Countermeasures Dispensing Systems
- AN/APR-39(V)1 Radar Signal Detective Set
- AN/ALQ-144(V)1 Countermeasures Set
- AN/ALQ-157 Infrared Jammer

Upon completion, the student will be able to perform the tests and repair of deceptive electronic countermeasures components on rotary wing aircraft in a shop environment under limited supervision.

Location VMAT 203 FREST, MCAS Cherry Point

Length 75 days

RFT date Currently available

Skill identifier MOS 6483

TTE/TD ◦ AN/ALE-39 Countermeasures Dispensing System
◦ AN/APR-39(V)1 Radar Signal Detecting Set
◦ AN/ALQ-144(V)1 Countermeasures Set
◦ AN/ALQ-157 Infrared Countermeasures Set

Prerequisites ◦ C-100-2017, Avionics Technician I Level Class A1
◦ Secret clearance

Title T-64 Engine First Degree Intermediate Maintenance

CIN M-601-3000

Model Manager .. HMT 302 FREST, MCAS New River

Description This course provides the Power Plants Mechanic knowledge and skills related to the T-64 engine, including:

- Replacement of parts
- Assembly and disassembly, using the proper tools and maintenance practices.

Upon completion, the student will be able to perform intermediate level maintenance on the T-64 engines in a shop environment under limited supervision.

Location HMT 302 FREST, MCAS New River

Length 44 days
 RFT date Currently available
 Skill identifier MOS 6123
 TTE/TD T-64 Engine
 Prerequisite C-601-2012, Aviation Machinist's Mate Helicopter
 Fundamentals Strand Class A1

Note: There is a new H-53 Powerplants I-level course which will replace this course. The new course is pending interim approval to teach.

**Title Helicopter Dynamic Component Intermediate
 Maintenance**

CIN M-601-3090

Model Manager ... HMT 302 FREST, MCAS New River

Description This course provides the Aviation Mechanic skills and
 knowledge on dynamic components including:

- Description of systems
- Servicing procedures
- Disassembly and assembly
- Maintenance of:
 - Rotary wing head swashplate
 - Longitudinal differential bellcrank
 - Collective pitch yoke assembly
- Special tools
- Test equipment
- Publications

Upon completion of this course, the student will be able to perform dynamic component maintenance in a shop environment under limited supervision.

Location HMT 302 FREST, MCAS New River

Length 29 days

RFT date Currently available

Skill identifier MOS 6132

TTE/TD CH-46, CH-53, and UH-1N rotors and related components

Prerequisite None

Title **CH-53D/E and CH-46 AFCS/Electrical Equipment Intermediate Maintenance**

CIN M-602-5812

Model Manager .. HMT 303 FREST, MCAS Camp Pendleton

Description This course provides the Aviation Electrician knowledge and skills on CH-46 and CH-53A/D/E electrical components. It includes:

- Troubleshooting
- Electrical systems repair
- Instrument repair
- Automatic flight control systems repair

Upon completion, the student will be able to perform electrical components maintenance in a shop environment under limited supervision.

Location HMT 303 FREST, MCAS Camp Pendleton

Length 79 days

RFT date Currently available

Skill identifier..... MOS 6433

TTE/TD..... Electrical systems, including instruments and automatic flight control systems components

Prerequisites C-100-2017, Avionics Technician I Level Class A1
Confidential clearance

Title **Support Equipment Electrical/Refrigeration Intermediate Maintenance**

CIN D/E-602-7032

Model Manager .. Maintenance Training Unit (MTU) 3032, Naval Air
Maintenance Training Unit (NAMTRAU) Jacksonville

Description This course provides the Support Equipment Technician knowledge and skill related to electrical and refrigeration support equipment maintenance. This training includes:

- MEP-105/009A Generator Set
- Environmental Control Unit
- A/M32C-17 Mobile Air Conditioner
- MMG-1A Mobile Electric Power Plant
- NC-10B-1/C Mobile Electric Power Plant

Upon completion of this course, the student will be able to perform electrical and refrigeration support equipment maintenance in a shop environment under limited supervision.

Locations ◦ MTU 3032 NAMTRAU Jacksonville
◦ MTU 3033 NAMTRAU North Island

Length 106 days

RFT date Currently available

Skill identifier MOS 6073

TTE/TD ◦ MMG-1A and NC-10B-1/C Mobile Electric Power Plants
◦ MEP-105A/009A Generator Set
◦ A/M32-17 Mobile Air Conditioner

Prerequisite C-602-2026, Aviation Support Equipment Technician Class A1

Title Support Equipment Engines/Gas Turbine and Related Systems Intermediate Maintenance

CIN D/E-602-7040

Model Manager .. MTU 3032 NAMTRAU Jacksonville

Description This course provides the Support Equipment Technician knowledge and skill related to engine, gas turbine, and related systems. This training includes:

- BT40D-46 Aircraft Preheater
- Support Equipment Shore Tractors
- GTC-85 Engines and Enclosures
- GTCP 10D Engine and Enclosures
- ACU-20M Low Air Compressor
- A/S32K-1C/D Weapons Loader.

Upon completion of this course, the student will be able to perform engine, gas turbine, and related systems maintenance in a shop environment under limited supervision.

Locations ◦ MTU 3032 NAMTRAU Jacksonville
◦ MTU 3033 NAMTRAU North Island

Length 109 days

RFT date Currently available

Skill identifier MOS 6072

TTE/TD ◦ BT40D-46 Aircraft Preheater
◦ GTC-85 and GTCP 10D Engines and Enclosures
◦ ACU-20M Low Pressure Compressor
◦ A/S32K-C/D Weapons Loader and Hydraulic Purifier (M-2)

Prerequisite C-602-2026, Aviation Support Equipment Technician Class A1

Title Aircraft Non-Destructive Inspection Technician Class C1

CIN C-603-3191

Model Manager ... Naval Air Technical Training Center (NATTC) Pensacola, Florida

Description	<p>This course provides the Aviation Structural Mechanic knowledge and skills related to aircraft Non-Destructive Inspections (NDI), including:</p> <ul style="list-style-type: none"> ◦ Theory, principles, and performance of the following test types: <ul style="list-style-type: none"> - Liquid penetrant - Magnetic particle - Eddy current - Ultrasonic - Radiographic - Composite material NDI methods ◦ Compliance with current NDI publications, specifications, and responsibilities ◦ Radiation safety <p>Upon completion, the student will be able to perform as an Aircraft NDI Technician in a shop environment without supervision.</p>
Location	NATTC Pensacola
Length	102 days
RFT date	Currently available
Skill identifier	MOS 6033
TTE/TD	Optical inspection, gaseous leak detection, magnetic rubber, electrical conductivity measurement, hardness testing, and ultrasonic leak detection equipment
Prerequisite	<ul style="list-style-type: none"> ◦ E-4 through E-6 ◦ Replacement radiation medical examination as prescribed by NAVMED P-5055, Chapter 2
Title	Airframes Intermediate Maintenance
CIN	D/E-603-4007
Model Manager ..	MTU 1038 NAMTRAU Lemoore

Description This course provides the Aviation Structural Mechanic knowledge and skills including:

- Composite material maintenance
- Repair procedures and processes
- Advanced composite materials repair
- Evaluation and repair criteria

Upon completion of the course, the student will be able to perform repairs to advanced composite materials in a shop environment under supervision.

Locations..... ◦ MTU 1007 NAMTRAU Oceana
◦ MTU 1038 NAMTRAU Lemoore

Length 29 days

RFT date Currently available

Skill identifier MOS 6092

TTE/TD Advanced composite material equipment

Prerequisite C-603-0175, Aviation Structural Mechanic (Structures and Hydraulic) Class A1

Title Aviation Ordnance Technician Intermediate Maintenance

CIN M-646-7026

Model Manager .. HMT 203 FREST MCAS Cherry Point

Description This course provides the Aircraft Ordnance Systems Technician specialized knowledge and skills, including:

- Proper operation of armament test equipment and systems
- Operational tests of suspension and releasing equipment
- Loading and unloading of aircraft munitions

Upon completion, the student will be able to perform as an Aviation Ordnance Systems Technician in a shop environment under limited supervision.

Location MTU 3001 NAMTRAGRU DET MCAS Cherry Point

Length 79 days

RFT date Currently available

Skill identifier..... MOS 6541

TTE/TD..... No major TTE or TD is required to support this course.

Prerequisite None

Title **Aircraft / Support Equipment Basic Welding Certification**

CIN N-701-0007

Model Manager .. Norfolk Naval Ship Yard (NNSY) Portsmouth, Virginia

Description This course provides the Aircraft Mechanic the specialized knowledge and skill, including certification, in basic welding using the GTAW process on:

- Aluminum alloys
- Steel alloys
- Stainless steel alloys
- Precipitating hardening
- Nickel based alloys

Upon completion, the student will be certified to perform basic welding in a shop environment under limited supervision.

Location ◦ NAVAVNDEPOT Jacksonville, Florida
◦ NAVAVNDEPOT Cherry Point, North Carolina
◦ NAVAVNDEPOT North Island, California
◦ NNSY Portsmouth

Length 54 days

RFT date Currently available

Skill identifier MOS 6043

TTE/TD..... No major TTE or TD is required to support this course.

Prerequisite None

c. Student Profiles

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
MOS 7564	<ul style="list-style-type: none">◦ Q-2A-0001, Primary Flight Training◦ Q-2A-0010, Joint T-34C Intermediate Flight Training◦ Q-2A-0013, V-4 Undergraduate Flight Training-Helo◦ Q-2A-0015, Undergraduate Helicopter Pilot Training

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
MOS 7566	<ul style="list-style-type: none"> ◦ Q-2A-0001, Primary Flight Training ◦ Q-2A-0010, Joint T-34C Intermediate Flight Training ◦ Q-2A-0013, V-4 Undergraduate Flight Training-Helo ◦ Q-2A-0015, Undergraduate Helicopter Pilot Training
MOS 6033	<ul style="list-style-type: none"> ◦ C-603-0175, Aviation Structural Mechanic (Structures and Hydraulic) Class A1 ◦ C-603-0176, Aviation Structural Mechanic (Structures and Hydraulic) Organizational Level Strand Class A1
MOS 6072	◦ C-602-2026, Aviation Support Equipment Technician Class A1
MOS 6073	◦ C-602-2026, Aviation Support Equipment Technician Class A1
MOS 6092	<ul style="list-style-type: none"> ◦ C-603-0175, Aviation Structural Mechanic (Structures and Hydraulic) Class A1 ◦ C-603-0176, Aviation Structural Mechanic (Structures and Hydraulic) Organizational Level Strand Class A1
MOS 6113	<ul style="list-style-type: none"> ◦ C-601-2011, Aviation Machinist's Mate Common Core Class A1 ◦ C-601-2012, Aviation Machinist's Mate Helicopter Fundamentals Strand Class A1
MOS 6123	<ul style="list-style-type: none"> ◦ C-601-2011, Aviation Machinist's Mate Common Core Class A1 ◦ C-601-2012, Aviation Machinist's Mate Helicopter Fundamentals Strand Class A1
MOS 6132	<ul style="list-style-type: none"> ◦ C-601-2011, Aviation Machinist's Mate Common Core Class A1 ◦ C-601-2012, Aviation Machinist's Mate Helicopter Fundamentals Strand Class A1
MOS 6153	<ul style="list-style-type: none"> ◦ C-603-0175, Aviation Structural Mechanic (Structures and Hydraulic) Class A1 ◦ C-603-0176, Aviation Structural Mechanic (Structures and Hydraulic) Organizational Level Strand Class A1
MOS 6173	<ul style="list-style-type: none"> ◦ C-601-2011, Aviation Machinist's Mate Common Core Class A1 ◦ C-601-2012, Aviation Machinist's Mate Helicopter Fundamentals Strand Class A1

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
MOS 6323	<ul style="list-style-type: none"> ° C-100-2020, Avionics Common Core Class A1 ° C-602-2039, Aviation Electrician's Mate O Level Strand Class A1 ° C-100-2018, Avionics Technician O Level Class A1
MOS 6412	<ul style="list-style-type: none"> ° C-100-2020, Avionics Common Core Class A1 ° C-602-2039, Aviation Electrician's Mate O Level Strand Class A1 ° C-100-2017, Avionics Technician I Level Class A1
MOS 6413	<ul style="list-style-type: none"> ° C-100-2020, Avionics Common Core Class A1 ° C-602-2039, Aviation Electrician's Mate O Level Strand Class A1 ° C-100-2017, Avionics Technician I Level Class A1
MOS 6423	<ul style="list-style-type: none"> ° C-100-2020, Avionics Common Core Class A1 ° A-100-0072, Miniature Electronics Repair
MOS 6433	<ul style="list-style-type: none"> ° C-602-2039, Aviation Electrician's Mate O Level Strand Class A1
MOS 6483	<ul style="list-style-type: none"> ° C-100-2020, Avionics Common Core Class A1 ° C-602-2039, Aviation Electrician's Mate O Level Strand Class A1 ° C-100-2017, Avionics Technician I Level Class A1
MOS 6531	<ul style="list-style-type: none"> ° C-646-2011, Aviation Ordnanceman Common Core Class A1 ° C-646-2012, Aviation Ordnanceman Airwing Strand Class A1
MOS 6541	<ul style="list-style-type: none"> ° C-646-2011, Aviation Ordnanceman Common Core Class A1 ° C-646-2012, Aviation Ordnanceman Airwing Strand Class A1

d. Training Pipelines. CH-53E pilot and aircrewman pipelines are established. Organizational and intermediate maintenance training tracks necessary to support the CH-53E training program are established and will be revised to incorporate the new system training requirements. No additional training tracks are required for the programmed ECPs.

I. ONBOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development. Marine Corps onboard training is based on the current series of Marine Corps Order P4790.12, Individual Training Standards System and Maintenance Training Management and Evaluation Program (MATMEP). This program is designed to meet Marine Corps, as well as Navy OPNAVINST 4790.2 series, maintenance training requirements. It is a performance-based, standardized, level-

progressive, documentable, training management and evaluation program. It identifies and prioritizes task inventories by MOS through a front-end analysis process that identifies task, skill, and knowledge requirements of each MOS. The Maintenance Training Improvement Program (MTIP) questions coupled to MATMEP tasks will help identify training deficiencies that can be enhanced with refresher training. (MATMEP is planned to be replaced by Aviation Maintenance Training Continuum System (AMTCS)). Current planning is for AMTCS to begin full implementation for fleet deployment in March 2001.

a. Maintenance Training Improvement Program. MTIP is a training management tool that, through diagnostic testing, identifies individual knowledge deficiencies at the organizational and intermediate levels of maintenance. MTIP was implemented per OPNAVINST 4790.2 series. MTIP is being replaced by the AMTCS

b. Aviation Maintenance Training Continuum System. AMTCS will provide career path training to the Sailor or Marine from their initial service entry to the end of their military career. AMTCS is planned to be an integrated system that will satisfy the training and administrative requirements of both the individual and the organization. The benefits will be manifested in the increased effectiveness of the technicians and the increased efficiencies of the management of the training business process. By capitalizing on technological advances and integrating systems and processes where appropriate, the right amount of training can be provided at the right time, thus meeting the CNO's mandated "just-in-time" training approach.

Technology investments enable the development of several state-of-the-art training and administrative tools: Interactive Multimedia Instruction for the technicians in the Fleet in the form of Interactive Courseware with Computer Managed Instruction and Computer Aided Instruction for the schoolhouse.

Included in the AMTCS development effort is the Aviation Maintenance Training Continuum System - Software Module which provides testing [Test and Evaluation recording [Electronic Training Jacket]], and a Feedback system. The core functionality of these AMTCS tools are based and designed around the actual maintenance-related tasks the technicians perform, and the tasks are stored and maintained in a Master Task List data bank. These tools are procured and fielded with appropriate COTS hardware and software, i.e., Fleet Training Devices, Laptops, PCs, Electronic Classrooms, Learning Resource Centers, operating software, and network software and hardware.

Upon receipt of direction from OPNAV (N889H), AMTCS is to be implemented and the new tools integrated into the daily training environment of all participating aviation activities and supporting elements. AMTCS will serve as the standard training system for aviation maintenance training within the Navy and Marine Corps, and is planned to supersede the existing MTIP and MATMEP programs starting October 2000, however implementation will begin with the E-2C, F-14, and the F/A-18 programs. Contact PMA205-3D3 for the AMTCS implementation schedule.

2. Personnel Qualification Standards. NA

3. Other Onboard or In-Service Training Packages. NA

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers

CONTRACT NUMBER	MANUFACTURER	ADDRESS
N00019-89-C-0203 N00019-90-C-0033 N00019-90-C-0095	Sikorsky Aircraft Corporation	6900 Main Street P.O. Box 9729 Stratford, CT 06497

2. Program Documentation. The revised Integrated Logistics Support Plan (ILSP) for the CH-53E (AC-051C) was approved 21 October 1992. No ILSP is available for the CH-53D.

3. Technical Data Plan. There are several changes planned for the CH-53E technical manuals. The CH-53E and MH-53E technical data was combined into one set of manuals, the A1-H53CE series. There are exceptions that will not be combined with MH-53E data: CH-53E NATOPS, connector and wiring harness repair, and wire data. The organizational level maintenance manual for the CH-53E (A1-H-53CE-700-000) is dated 31 May 1994, with change 4 dated February 28, 1997. The organizational and intermediate level maintenance manual for the CH-53D (A1-H53AD-500-000) is dated 1 May 1986, with change 14 dated 1 October 1998.

4. Test Sets, Tools, and Test Equipment. The electrical sub-assembly test set has been developed and is being employed for CH-53E electrical systems maintenance at the intermediate level.

5. Repair Parts. The Material Support Date and the Navy Support Date have been achieved for the CH-53E. The Naval Aviation Inventory Control Point (NAVICP) establishes detailed spare and repair parts requirements in provisioning policy statements issued with the award of production contracts. Requirements are updated through NAVICP provisioning conferences.

6. Human Systems Integration. NA

K. SCHEDULES

1. Schedule of Events

a. Installation and Delivery Schedules. All CH-53D and CH-53E aircraft have been delivered. The installation schedule for the CH-53 ECPS is listed below.

ECP	DESCRIPTION	AIRCRAFT	START DATE	ESTIMATED COMPLETION DATE	PERCENT COMPLETE AS OF APR 00
AFC-380	AN/AAR-47 Kits	CH-53E	Jul 91	Oct 00	99%
AFC-429 RB	NVG Cockpit Lights	CH-53E	Sep 98	Nov 00	98%
AFC-453 Part 1	AN/ARN-151 GPS Kits	CH-53E	Apr 98	Nov 00	95%
AFC-453 Part 2	AN/ARN-151 GPS Kits	CH-53D	Jun 98	Nov 00	95%
AFC-455 Part 1	AN/ARC-210 Radio Kits	CH-53E	Aug 95	Sep 01	85%
AFC-455 Part 2	AN/ARC-210 Radio Kits	CH-53D	Sep 98	Nov 00	95%
AFC-471	HNVS Kits	CH-53E	Oct 98	Nov 00	98%
AFC-479 Part 1	NVG Exterior Lighting Kits	CH-53E	Jun 97	Nov 00	95%
AFC-479 Part 2	NVG Exterior Lighting Kits	CH-53D	Oct 97	Jul 00	100%
AFC-482	ANVIS/HUD Kits	CH-53E	Sep 97	Sep 03	40%
AFC-483	# Two Engine Thermal Detector	CH-53E	Sep 97	Sep 01	80%
AFC-490	ALT Voltage Kits	CH-53E	Jun 97	Dec 00	95%
AFC-491	TROS/Wash-Plate Kits	CH-53E	Nov 99	Sep 01	10%
AFC-501 Part 1	GPWS Kits	CH-53D	Nov 99	Sep 03	10%
AFC-501 Part 2	GPWS Kits	CH-53E	Nov 99	Sep 03	15%

ECP	DESCRIPTION	AIRCRAFT	START DATE	ESTIMATED COMPLETION DATE	PERCENT COMPLETE AS OF APR 00
AFC-502	Crash Attenuating Troop Seats	CH-53D	Dec 98	Complete	100%
AFC-505	AN/APR-39(V) Radar Warning System	CH-53E	TBD	TBD	1%

Note: NAVAVNDEPOT Cherry Point provided the information above.

b. Ready For Operational Use Schedule. The CH-53E and CH-53D are Ready For Operational Use upon delivery.

c. Time Required to Install at Operational Sites. NA

d. Foreign Military Sales and Other Source Delivery Schedule. NA

e. Training Device and Delivery Schedule. CH-53E Operational Trainers 2F174 and 2F171 are installed at MCAS New River. Installations were completed by 30 September 2000. CH-53E CMT 980531-1002-01 was also installed by 30 September 2000. The CH-53E CNI Maintenance Trainer and CH-53D Operator and Maintenance Trainer installation dates are pending.

L. GOVERNMENT FURNISHED EQUIPMENT AND CONTRACTOR FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
CH-53E ILSP	AC-051D	PMA261	Approved Oct 92
CH-53D NATOPS Manual	NAVAIR 01-230 HMA-1	PMA261	Approved Jan 97
Helicopter/OV-10 Survivability Equipment	A-50-8302C/A	PMA253	Approved Feb 92

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
AN/APN-217 Radar Navigation Set	A-50-8814B/A	PDA 13	Approved Mar 96
MH-53E NTSP	N88-NTSP-A-50-8417D/D	PMA261	Proposed Oct 00

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the CH-53D and CH-53E and, therefore, are not included in Part II of this NTSP:

II.A. Billet Requirements

II.A.2.a. Operational and Fleet Support Activity Deactivation Schedule

II.A.2.b. Billets to be Deleted in Operational and Fleet Support Activities

II.A.2.c. Total Billets to be Deleted in Operational and Fleet Support Activities

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: Extract from Table of Manpower Requirements, TFS, MCCDC

DATE: 11 Sep 00

ACTIVITY, UIC	PFYs	CFY01	FY02	FY03	FY04	FY05
OPERATIONAL ACTIVITIES - USMC						
CH-53E East Coast (2 HMH)	00000	2	0	0	0	0
HMH 772	09490	1	0	0	0	0
HMT 302 (15 CH-53E)	55203	1	0	0	0	0
HMX 1	55173	1	0	0	0	0
CH-53D (4 HMH)	00000	4	0	0	0	0
CH-53E West Coast (4 HMH)	00000	4	0	0	0	0
HMH 769	09487	1	0	0	0	0
HMT 301 (CH-53D)	39797	1	0	0	0	0
TOTAL:		15	0	0	0	0
FLEET SUPPORT ACTIVITIES - USMC						
MALS Rotary Wing East (2)	00000	2	0	0	0	0
Site Support Willow Grove	67828	1	0	0	0	0
MALS Rotary Wing West (2)	00000	2	0	0	0	0
MALSE Kaneohe	02300	1	0	0	0	0
Site Support Edwards AFB	09749	1	0	0	0	0
TOTAL:		7	0	0	0	0

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
OPERATIONAL ACTIVITIES - USMC					
CH-53E East Coast (2 HMH) 00000					
USMC	1	0	0170		
	1	0	6004		
	1	0	6302		
	38	0	7566		
	0	3	CPL	0121	
	0	1	CPL	6042	
	0	1	CPL	6043	6092
	0	1	CPL	6044	6092
	0	5	CPL	6046	
	0	2	CPL	6060	
	0	1	CPL	6092	
	0	10	CPL	6113	
	0	3	CPL	6123	6135
	0	13	CPL	6153	
	0	8	CPL	6173	
	0	12	CPL	6323	
	0	1	CPL	6433	
	0	1	CPL	6531	
	0	5	CPL	6541	
	0	1	CPL	6672	
	0	2	GYSGT	6047	6048
	0	1	GYSGT	6060	
	0	4	GYSGT	6113	
	0	2	GYSGT	6153	
	0	1	GYSGT	6153	9954
	0	1	GYSGT	6173	
	0	2	GYSGT	6323	
	0	1	GYSGT	6531	
	0	4	LCPL	0121	
	0	1	LCPL	2111	
	0	2	LCPL	0231	
	0	3	LCPL	0431	
	0	1	LCPL	6042	
	0	1	LCPL	6043	
	0	1	LCPL	6043	6092
	0	5	LCPL	6046	
	0	4	LCPL	6060	
	0	5	LCPL	6072	
	0	2	LCPL	6073	
	0	2	LCPL	6094	
	0	21	LCPL	6113	
	0	4	LCPL	6123	
	0	2	LCPL	6132	
	0	17	LCPL	6153	
	0	8	LCPL	6173	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USMC	0	17	LCPL	6323	6412
	0	2	LCPL	6413	
	0	2	LCPL	6422	
	0	1	LCPL	6422	
	0	5	LCPL	6433	
	0	2	LCPL	6483	
	0	2	LCPL	6492	
	0	3	LCPL	6531	
	0	1	LCPL	6541	
	0	5	LCPL	6672	
	0	4	LCPL	7041	
	0	1	MGYSGT	9999	
	0	1	MSGT	0193	
	0	1	MSGT	6119	
	0	1	MSGT	6391	
	0	1	SGT	0121	
	0	1	SGT	0151	
	0	1	SGT	0231	
	0	1	SGT	0431	
	0	2	SGT	6047	
	0	3	SGT	6060	
	0	1	SGT	6073	
	0	1	SGT	6094	
	0	9	SGT	6113	
	0	1	SGT	6123	
	0	5	SGT	6153	
	0	5	SGT	6173	
	0	9	SGT	6323	
	0	2	SGT	6413	
	0	1	SGT	6433	
	0	1	SSGT	6047	
	0	1	SSGT	6072	
	0	4	SSGT	6113	
	0	1	SSGT	6132	
	0	8	SSGT	6153	
	0	4	SSGT	6173	
	0	5	SSGT	6323	
	0	3	SSGT	6414	
	0	2	SSGT	6531	
	0	1	SSGT	7041	
0	1	SSGT	8421		
0	1	SSGT	8711		
CH-53E East Coast (2 HMH)	00000				
ACDU	1	0	2102		
	0	1	HM1	8406	
	0	2	HM2	8406	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
ACTIVITY TOTAL:	42	291			
HMH 772					
USMC					
09490					
	1	0	6302		
	1	0	7566		
	0	1	CPL	6044	6092
	0	1	CPL	6046	
	0	1	CPL	6092	
	0	2	CPL	6113	
	0	3	CPL	6153	
	0	2	CPL	6173	
	0	1	CPL	6323	
	0	1	CPL	6541	
	0	1	CPL	6672	
	0	2	GYSGT	6047	6048
	0	1	GYSGT	6173	
	0	1	GYSGT	6531	
	0	1	LCPL	2111	
	0	1	LCPL	6042	
	0	1	LCPL	6043	
	0	1	LCPL	6046	
	0	2	LCPL	6060	
	0	1	LCPL	6072	
	0	4	LCPL	6113	
	0	1	LCPL	6132	
	0	4	LCPL	6153	
	0	3	LCPL	6173	
	0	5	LCPL	6323	
	0	1	LCPL	6413	
	0	1	LCPL	6422	6412
	0	2	LCPL	6492	
	0	3	LCPL	6531	
	0	1	LCPL	6541	
	0	3	LCPL	6672	
	0	2	LCPL	7041	
	0	1	MSGT	6119	
	0	1	MSGT	6391	
	0	1	SGT	0121	
	0	1	SGT	0151	
	0	1	SGT	0431	
	0	1	SGT	6060	
	0	1	SGT	6073	
	0	1	SGT	6094	
	0	1	SGT	6113	
	0	1	SGT	6123	
	0	3	SGT	6153	
	0	2	SGT	6173	
	0	3	SGT	6323	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USMC	0	1	SGT	6433	
	0	1	SSGT	6047	
	0	1	SSGT	6072	
	0	1	SSGT	6113	
	0	2	SSGT	6153	
	0	1	SSGT	6173	
	0	3	SSGT	6323	
	0	2	SSGT	6414	
AR	1	0	0170		
	1	0	6004		
	2	0	7566		
	0	1	CPL	0121	
	0	2	CPL	6113	
	0	1	CPL	6531	
	0	1	MSGT	0193	
	0	1	SGT	6113	
	0	1	SGT	6153	
	0	1	SSGT	6113	
	0	1	SSGT	6132	
	0	1	SSGT	6153	
	0	1	SSGT	6173	
	0	1	SSGT	7041	
	0	1	SSGT	8711	
SMCR	17	0	7566		
	0	1	CPL	6123	6135
	0	3	CPL	6153	
	0	1	CPL	6174	
	0	4	CPL	6323	
	0	1	CPL	6433	
	0	1	GYSGT	6060	
	0	1	GYSGT	6153	9954
	0	1	LCPL	0431	
	0	2	LCPL	6046	
	0	5	LCPL	6113	
	0	2	LCPL	6123	
	0	1	LCPL	6132	
	0	3	LCPL	6153	
	0	1	LCPL	6173	
	0	4	LCPL	6323	
	0	1	LCPL	6413	
	0	1	LCPL	6433	
	0	1	MGYSGT	9999	
	0	1	SGT	0231	
	0	1	SGT	6113	
	0	1	SGT	6173	
	0	1	SSGT	6414	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
SMCR	0	1	SSGT	8421	
HMH 772 09490					
ACDU	1	0	2102		
	0	1	HM1	8406	
ACTIVITY TOTAL:	24	137			
HMT 302 (15 CH-53E) 55203					
USMC	1	0	0170		
	1	0	6002		
	1	0	6004		
	21	0	7566		
	0	2	CPL	0121	
	0	2	CPL	0151	
	0	1	CPL	0431	
	0	1	CPL	6043	6092
	0	2	CPL	6060	
	0	1	CPL	6094	
	0	1	CPL	6113	
	0	2	CPL	6123	6135
	0	1	CPL	6132	
	0	8	CPL	6153	
	0	9	CPL	6173	
	0	11	CPL	6323	
	0	2	CPL	6413	
	0	1	CPL	6423	
	0	1	CPL	6492	
	0	1	CPL	6531	
	0	1	CPL	6672	
	0	1	CPL	7041	
	0	1	GYSGT	0193	
	0	2	GYSGT	6113	
	0	2	GYSGT	6153	
	0	1	GYSGT	6173	
	0	3	GYSGT	6323	
	0	1	LCPL	0121	
	0	1	LCPL	0151	
	0	1	LCPL	2111	
	0	1	LCPL	5711	
	0	1	LCPL	6042	
	0	2	LCPL	6046	
	0	3	LCPL	6060	
	0	5	LCPL	6072	
	0	2	LCPL	6073	
	0	2	LCPL	6092	
	0	2	LCPL	6094	
	0	30	LCPL	6113	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USMC	0	3	LCPL	6123	
	0	3	LCPL	6132	
	0	11	LCPL	6153	
	0	10	LCPL	6173	
	0	9	LCPL	6323	
	0	2	LCPL	6412	
	0	6	LCPL	6413	
	0	5	LCPL	6433	
	0	1	LCPL	6483	
	0	2	LCPL	6492	
	0	1	LCPL	6531	
	0	7	LCPL	6672	
	0	1	LCPL	7041	
	0	1	MGYSGT	6119	
	0	1	MGYSGT	6391	
	0	1	MGYSGT	9999	
	0	1	MSGT	6119	
	0	1	SGT	0151	
	0	1	SGT	6044	6092
	0	1	SGT	6045	
	0	1	SGT	6045	6153
	0	1	SGT	6047	
	0	1	SGT	6060	
	0	1	SGT	6094	
	0	8	SGT	6113	
	0	1	SGT	6123	
	0	1	SGT	6153	
	0	3	SGT	6173	
	0	6	SGT	6323	
	0	1	SGT	6412	
	0	2	SGT	6433	
	0	1	SGT	6483	
	0	1	SGT	6531	
	0	2	SSGT	6047	
	0	1	SSGT	6060	
	0	4	SSGT	6113	
	0	1	SSGT	6113	9954
	0	4	SSGT	6153	
	0	2	SSGT	6173	
	0	2	SSGT	6323	
0	3	SSGT	6414		
0	1	SSGT	7041		
0	1	SSGT	8421		
0	1	SSGT	8711		
HMT 302 (15 CH-53E)					
ACDU	55203				
		1	0	2102	
		0	1	HM2	8406
		0	1	HM3	8404
ACTIVITY TOTAL:		25	228		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
HMX 1					
USMC		55173			
	13	0	7564		
	10	0	7566		
	0	1	CPL	6044	6092
	0	4	CPL	6072	
	0	2	CPL	6073	
	0	1	CPL	6092	
	0	6	CPL	6113	
	0	1	CPL	6123	6135
	0	3	CPL	6153	
	0	11	CPL	6173	
	0	6	CPL	6323	
	0	2	CPL	6433	
	0	1	CPL	6483	
	0	5	CPL	6492	
	0	4	CPL	6531	
	0	2	GYSGT	6092	
	0	4	GYSGT	6113	
	0	1	GYSGT	6123	
	0	1	GYSGT	6153	
	0	4	GYSGT	6323	
	0	2	GYSGT	6414	
	0	1	LCPL	6072	
	0	2	LCPL	6092	
	0	16	LCPL	6113	
	0	2	LCPL	6123	
	0	1	LCPL	6132	
	0	6	LCPL	6153	
	0	10	LCPL	6173	
	0	7	LCPL	6323	
	0	2	LCPL	6483	
	0	1	MGYSGT	6119	
	0	6	MSGT	6119	
	0	1	SGT	6043	
	0	1	SGT	6044	6092
	0	6	SGT	6072	
	0	1	SGT	6073	
	0	7	SGT	6113	
	0	1	SGT	6132	
	0	7	SGT	6153	
	0	14	SGT	6173	
	0	7	SGT	6323	
	0	2	SGT	6433	
	0	1	SGT	6492	
	0	2	SGT	6531	
	0	1	SSGT	6044	6092
	0	1	SSGT	6072	
	0	6	SSGT	6113	9954
	0	1	SSGT	6123	6135

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USMC	0	3	SSGT	6153	
	0	3	SSGT	6173	
	0	6	SSGT	6323	
	0	1	SSGT	6414	
	0	1	SSGT	6492	
ACTIVITY TOTAL:	23	188			
CH-53D (4 HMH)					
USMC					
00000					
	1	0	0170		
	1	0	6004		
	1	0	6302		
	20	0	7564		
	0	2	CPL	0121	
	0	1	CPL	6046	
	0	8	CPL	6113	
	0	4	CPL	6153	
	0	6	CPL	6323	
	0	2	CPL	6433	
	0	1	CPL	6531	
	0	2	CPL	6541	
	0	2	CPL	6672	
	0	1	GYSGT	0193	
	0	2	GYSGT	6047	6048
	0	1	GYSGT	6060	
	0	1	GYSGT	6113	
	0	1	GYSGT	6153	
	0	1	GYSGT	6173	
	0	2	GYSGT	6323	
	0	1	GYSGT	6531	
	0	2	LCPL	0121	
	0	1	LCPL	2111	
	0	1	LCPL	0431	
	0	1	LCPL	6042	
	0	1	LCPL	6043	6092
	0	3	LCPL	6046	
	0	3	LCPL	6060	
	0	1	LCPL	6072	
	0	1	LCPL	6092	
	0	8	LCPL	6113	
	0	1	LCPL	6123	
	0	3	LCPL	6132	
	0	4	LCPL	6153	
	0	9	LCPL	6173	
	0	4	LCPL	6323	
	0	3	LCPL	6413	
	0	1	LCPL	6433	
	0	1	LCPL	6492	
	0	3	LCPL	6531	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USMC	0	2	LCPL	6672	
	0	2	LCPL	7041	
	0	1	MGYSGT	9999	
	0	1	MSGT	6119	
	0	1	SGT	0151	
	0	1	SGT	0231	
	0	1	SGT	0431	
	0	1	SGT	6044	6092
	0	1	SGT	6060	
	0	2	SGT	6094	
	0	4	SGT	6113	
	0	1	SGT	6123	
	0	5	SGT	6153	
	0	2	SGT	6173	
	0	4	SGT	6323	
	0	1	SGT	6422	6412
	0	1	SSGT	6047	
	0	1	SSGT	6072	
	0	1	SSGT	6073	
	0	2	SSGT	6113	
	0	1	SSGT	6132	
	0	1	SSGT	6153	
	0	2	SSGT	6173	
0	2	SSGT	6323		
0	2	SSGT	6414		
0	1	SSGT	7041		
0	1	SSGT	8421		
0	1	SSGT	8711		
CH-53D (4 HMH)	00000				
ACDU	1	0	2100		
	0	2	HM1	8406	
	0	1	HM2	8404	
	0	1	HM3	8404	
ACTIVITY TOTAL:	24	139			
CH-53E West Coast (4 HMH)	00000				
USMC	1	0	0170		
	1	0	6004		
	1	0	6302		
	38	0	7566		
	0	3	CPL	0121	
	0	1	CPL	6042	
	0	1	CPL	6043	6092
	0	1	CPL	6044	6092
	0	5	CPL	6046	
	0	2	CPL	6060	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USMC	0	1	CPL	6092	
	0	10	CPL	6113	
	0	3	CPL	6123	6135
	0	13	CPL	6153	
	0	8	CPL	6173	
	0	12	CPL	6323	
	0	1	CPL	6433	
	0	1	CPL	6531	
	0	5	CPL	6541	
	0	1	CPL	6672	
	0	2	GYSGT	6047	6048
	0	1	GYSGT	6060	
	0	4	GYSGT	6113	
	0	2	GYSGT	6153	
	0	1	GYSGT	6153	9954
	0	1	GYSGT	6173	
	0	2	GYSGT	6323	
	0	1	GYSGT	6531	
	0	4	LCPL	0121	
	0	1	LCPL	2111	
	0	2	LCPL	0231	
	0	3	LCPL	0431	
	0	1	LCPL	6042	
	0	1	LCPL	6043	
	0	1	LCPL	6043	6092
	0	5	LCPL	6046	
	0	4	LCPL	6060	
	0	5	LCPL	6072	
	0	2	LCPL	6073	
	0	2	LCPL	6094	
	0	21	LCPL	6113	
	0	4	LCPL	6123	
	0	2	LCPL	6132	
	0	17	LCPL	6153	
	0	8	LCPL	6173	
	0	17	LCPL	6323	
	0	2	LCPL	6413	
	0	2	LCPL	6422	
	0	1	LCPL	6422	6412
	0	5	LCPL	6433	
	0	2	LCPL	6483	
	0	2	LCPL	6492	
0	3	LCPL	6531		
0	1	LCPL	6541		
0	5	LCPL	6672		
0	4	LCPL	7041		
0	1	MGYSGT	9999		
0	1	MSGT	0193		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USMC	0	1	MSGT	6119	
	0	1	MSGT	6391	
	0	1	SGT	0121	
	0	1	SGT	0151	
	0	1	SGT	0231	
	0	1	SGT	0431	
	0	2	SGT	6047	
	0	3	SGT	6060	
	0	1	SGT	6073	
	0	1	SGT	6094	
	0	9	SGT	6113	
	0	1	SGT	6123	
	0	5	SGT	6153	
	0	5	SGT	6173	
	0	9	SGT	6323	
	0	2	SGT	6413	
	0	1	SGT	6433	
	0	1	SSGT	6047	
	0	1	SSGT	6072	
	0	4	SSGT	6113	
	0	1	SSGT	6132	
	0	8	SSGT	6153	
	0	4	SSGT	6173	
	0	5	SSGT	6323	
	0	3	SSGT	6414	
	0	2	SSGT	6531	
0	1	SSGT	7041		
0	1	SSGT	8421		
0	1	SSGT	8711		
CH-53E West Coast (4 HMH) 00000					
ACDU	1	0	2102		
	0	1	HM1	8406	
	0	2	HM2	8406	
ACTIVITY TOTAL:	42	291			
HMH 769 09487					
USMC	1	0	6302		
	1	0	7566		
	0	1	CPL	0121	
	0	1	CPL	6044	6092
	0	1	CPL	6046	
	0	1	CPL	6092	
	0	2	CPL	6113	
	0	1	CPL	6132	
	0	3	CPL	6153	
	0	2	CPL	6173	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USMC	0	1	CPL	6323	
	0	1	CPL	6672	
	0	2	GYSGT	6047	6048
	0	1	GYSGT	6173	
	0	1	GYSGT	6531	
	0	1	LCPL	2111	
	0	1	LCPL	6042	
	0	1	LCPL	6043	6092
	0	1	LCPL	6046	
	0	2	LCPL	6060	
	0	1	LCPL	6072	
	0	4	LCPL	6113	
	0	4	LCPL	6153	
	0	3	LCPL	6173	
	0	5	LCPL	6323	
	0	1	LCPL	6413	
	0	1	LCPL	6422	6412
	0	2	LCPL	6492	
	0	3	LCPL	6531	
	0	1	LCPL	6541	
	0	3	LCPL	6672	
	0	2	LCPL	7041	
	0	1	MSGT	6119	
	0	1	MSGT	6391	
	0	1	SGT	0121	
	0	1	SGT	0431	
	0	1	SGT	6060	
	0	1	SGT	6073	
	0	1	SGT	6094	
	0	1	SGT	6113	
	0	1	SGT	6123	
	0	3	SGT	6153	
	0	2	SGT	6173	
	0	3	SGT	6323	
	0	1	SGT	6433	
	0	1	SSGT	6047	
	0	1	SSGT	6072	
	0	1	SSGT	6113	
	0	2	SSGT	6153	
	0	1	SSGT	6173	
0	4	SSGT	6323		
0	2	SSGT	6414		
AR	1	0	0170		
	1	0	6004		
	2	0	7566		
	0	2	CPL	6113	
	0	1	CPL	6531	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
AR	0	1	CPL	6541	
	0	1	LCPL	0431	
	0	1	MSGT	0193	
	0	1	SGT	0151	
	0	1	SGT	6113	
	0	1	SGT	6153	
	0	1	SSGT	6113	
	0	1	SSGT	6132	
	0	1	SSGT	6153	
	0	1	SSGT	6173	
	0	1	SSGT	7041	
	0	1	SSGT	8421	
	0	1	SSGT	8711	
	SMCR	17	0	7566	
0		1	CPL	6123	6135
0		3	CPL	6153	
0		1	CPL	6173	
0		4	CPL	6323	
0		1	CPL	6433	
0		1	GYSGT	6060	
0		1	GYSGT	6153	9954
0		2	LCPL	6046	
0		5	LCPL	6113	
0		2	LCPL	6123	
0		1	LCPL	6132	
0		3	LCPL	6153	
0		1	LCPL	6173	
0		4	LCPL	6323	
0		1	LCPL	6413	
0		1	LCPL	6433	
0		1	MGYSGT	9999	
0		1	SGT	0231	
0		1	SGT	6113	
0	1	SGT	6173		
0	1	SSGT	6414		
HMH 769	09487				
ACDU		1	0	2102	
		0	1	HM1	8406
ACTIVITY TOTAL:		24	138		
HMT 301 (CH-53D)	39797				
USMC		1	0	0170	
		2	0	6004	
		1	0	6302	
		8	0	7564	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USMC	0	1	CPL	0121	
	0	2	CPL	0151	
	0	1	CPL	0431	
	0	1	CPL	6042	
	0	1	CPL	6043	6092
	0	1	CPL	6045	
	0	1	CPL	6045	6153
	0	2	CPL	6060	
	0	1	CPL	6094	
	0	4	CPL	6113	
	0	1	CPL	6123	6135
	0	1	CPL	6132	
	0	5	CPL	6153	
	0	4	CPL	6173	
	0	4	CPL	6323	
	0	1	CPL	6413	
	0	1	CPL	6423	
	0	1	CPL	6433	
	0	1	CPL	6483	
	0	1	CPL	6492	
	0	1	CPL	6531	
	0	3	CPL	6672	
	0	1	CPL	7041	
	0	1	GYSGT	0193	
	0	2	GYSGT	6113	
	0	1	GYSGT	6152	
	0	2	GYSGT	6153	
	0	1	GYSGT	6173	
	0	3	GYSGT	6323	
	0	1	GYSGT	6414	
	0	1	LCPL	0121	
	0	1	LCPL	2111	
	0	1	LCPL	5711	
	0	2	LCPL	6042	
	0	2	LCPL	6046	
	0	1	LCPL	6060	
	0	3	LCPL	6072	
	0	1	LCPL	6073	
	0	1	LCPL	6092	
	0	1	LCPL	6094	
	0	5	LCPL	6113	
	0	1	LCPL	6123	
	0	1	LCPL	6132	
0	2	LCPL	6153		
0	3	LCPL	6173		
0	2	LCPL	6323		
0	1	LCPL	6412		
0	2	LCPL	6413		

II.A.1.b. BILLETTS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USMC	0	1	LCPL	6433	
	0	1	LCPL	6483	
	0	1	LCPL	6531	
	0	3	LCPL	6672	
	0	1	MGYSGT	6119	
	0	1	MGYSGT	9999	
	0	1	MSGT	6391	
	0	1	SGT	6044	6092
	0	1	SGT	6047	
	0	1	SGT	6060	
	0	1	SGT	6094	
	0	4	SGT	6113	
	0	1	SGT	6123	
	0	1	SGT	6153	
	0	3	SGT	6173	
	0	3	SGT	6323	
	0	1	SGT	6412	
	0	1	SGT	6433	
	0	1	SGT	6492	
	0	1	SGT	6531	
	0	1	SGT	7041	
	0	2	SSGT	6047	
	0	1	SSGT	6060	
	0	4	SSGT	6113	
	0	3	SSGT	6153	
	0	2	SSGT	6173	
	0	1	SSGT	6323	
0	1	SSGT	8421		
0	1	SSGT	8711		
HMT 301 (CH-53D)					
ACDU	39797				
		1	0	2102	
		0	1	HM2	8406
		0	1	HM3	8404
ACTIVITY TOTAL:		13	129		
FLEET SUPPORT ACTIVITIES - USMC					
MALS Rotary Wing East (2)	00000				
USMC		1	0	0170	
		1	0	0402	
		5	0	6002	
		4	0	6004	
		2	0	6302	
		1	0	6502	
		7	0	6602	
		5	0	6604	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USMC	0	1	CPL	0121	
	0	1	CPL	0151	
	0	1	CPL	3052	
	0	1	CPL	0431	
	0	1	CPL	6042	
	0	2	CPL	6046	
	0	3	CPL	6060	
	0	2	CPL	6073	
	0	2	CPL	6075	
	0	1	CPL	6094	
	0	4	CPL	6132	
	0	2	CPL	6135	
	0	1	CPL	6423	
	0	1	CPL	6492	
	0	2	CPL	6494	
	0	1	CPL	6541	
	0	18	CPL	6672	
	0	3	CPL	6673	
	0	1	GYSGT	0491	
	0	1	GYSGT	6042	
	0	1	GYSGT	6047	
	0	1	GYSGT	6047	6048
	0	1	GYSGT	6060	
	0	2	GYSGT	6072	
	0	2	GYSGT	6073	
	0	1	GYSGT	6075	
	0	1	GYSGT	6123	
	0	1	GYSGT	6124	
	0	2	GYSGT	6132	
	0	1	GYSGT	6152	
	0	4	GYSGT	6414	
	0	2	GYSGT	6434	
	0	1	GYSGT	6492	
	0	1	GYSGT	6494	
	0	2	GYSGT	6541	
	0	6	GYSGT	6672	
	0	2	LCPL	0121	
	0	2	LCPL	0151	
	0	1	LCPL	2111	
	0	2	LCPL	2161	
0	1	LCPL	3052		
0	1	LCPL	0431		
0	3	LCPL	6042		
0	7	LCPL	6046		
0	5	LCPL	6060		
0	3	LCPL	6072		
0	3	LCPL	6073		
0	5	LCPL	6075		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USMC	0	1	LCPL	6092	
	0	1	LCPL	6412	
	0	4	LCPL	6423	
	0	1	LCPL	6433	
	0	4	LCPL	6483	
	0	3	LCPL	6492	
	0	5	LCPL	6494	
	0	5	LCPL	6541	
	0	26	LCPL	6672	
	0	6	LCPL	6673	
	0	1	MGYSGT	6119	
	0	1	MGYSGT	6391	
	0	1	MGYSGT	6591	
	0	1	MGYSGT	6672	
	0	1	MGYSGT	9999	
	0	1	MSGT	0193	
	0	1	MSGT	0369	
	0	1	MSGT	6047	
	0	3	MSGT	6119	
	0	1	MSGT	6491	
	0	3	MSGT	6672	
	0	1	SGT	0121	
	0	1	SGT	2111	
	0	1	SGT	3052	
	0	1	SGT	6042	
	0	1	SGT	6044	6092
	0	4	SGT	6047	
	0	3	SGT	6060	
	0	5	SGT	6072	
	0	3	SGT	6073	
	0	2	SGT	6075	
	0	2	SGT	6092	
	0	2	SGT	6132	
	0	2	SGT	6135	
	0	1	SGT	6423	
	0	2	SGT	6483	
	0	2	SGT	6492	
	0	2	SGT	6494	
	0	1	SGT	6541	
	0	16	SGT	6672	
0	1	SGT	6673		
0	2	SGT	8711	0311	
0	1	SGT	9956		
0	2	SSGT	6042		
0	1	SSGT	6044	6092	
0	2	SSGT	6047		
0	2	SSGT	6060		
0	2	SSGT	6072		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USMC	0	3	SSGT	6073	
	0	2	SSGT	6075	
	0	1	SSGT	6092	
	0	3	SSGT	6094	
	0	2	SSGT	6132	
	0	1	SSGT	6135	
	0	3	SSGT	6414	
	0	2	SSGT	6434	
	0	1	SSGT	6492	
	0	1	SSGT	6494	
	0	3	SSGT	6541	
	0	10	SSGT	6672	
	0	1	SSGT	6673	
	0	1	SSGT	8421	
MALS Rotary Wing East (2)					
ACDU	00000				
		1	0	2100	
		0	1	HM1	8404
		0	1	HM2	8404
		0	1	HM3	8404
ACTIVITY TOTAL:		27	286		
Site Support (Willow Grove)					
USMC	67828				
		1	0	6004	
		1	0	6604	
		0	1	GYSGT	6672
		0	1	MGYSGT	9999
		0	1	MSGT	6119
		0	1	SGT	6672
		0	1	SSGT	3043
		0	1	SSGT	6672
AR		1	0	6502	
		1	0	9967	
		0	1	SGT	1142
		0	1	SGT	3043
		0	1	SGT	4066
		0	1	SSGT	1341
		0	1	SSGT	3529
		0	1	SSGT	8711
SMCR		1	0	4402	
		1	0	9906	
ACTIVITY TOTAL:		6	12		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
MALS Rotary Wing West (2) 00000					
USMC	1	0	0170		
	1	0	0402		
	5	0	6002		
	4	0	6004		
	2	0	6302		
	1	0	6502		
	7	0	6602		
	5	0	6604		
	0	1	CPL	0121	
	0	1	CPL	0151	
	0	1	CPL	3052	
	0	1	CPL	0431	
	0	1	CPL	6042	
	0	2	CPL	6046	
	0	3	CPL	6060	
	0	2	CPL	6073	
	0	2	CPL	6075	
	0	1	CPL	6094	
	0	4	CPL	6132	
	0	2	CPL	6135	
	0	1	CPL	6423	
	0	1	CPL	6492	
	0	2	CPL	6494	
	0	1	CPL	6541	
	0	18	CPL	6672	
	0	3	CPL	6673	
	0	1	GYSGT	0491	
	0	1	GYSGT	6042	
	0	1	GYSGT	6047	
	0	1	GYSGT	6047	6048
	0	1	GYSGT	6060	
	0	2	GYSGT	6072	
	0	2	GYSGT	6073	
	0	1	GYSGT	6075	
	0	1	GYSGT	6123	
	0	1	GYSGT	6124	
	0	2	GYSGT	6132	
	0	1	GYSGT	6152	
	0	4	GYSGT	6414	
	0	2	GYSGT	6434	
	0	1	GYSGT	6492	
	0	1	GYSGT	6494	
	0	2	GYSGT	6541	
	0	6	GYSGT	6672	
	0	2	LCPL	0121	
	0	2	LCPL	0151	
	0	1	LCPL	2111	
	0	2	LCPL	2161	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USMC	0	1	LCPL	3052	
	0	1	LCPL	0431	
	0	3	LCPL	6042	
	0	7	LCPL	6046	
	0	5	LCPL	6060	
	0	3	LCPL	6072	
	0	3	LCPL	6073	
	0	5	LCPL	6075	
	0	1	LCPL	6092	
	0	1	LCPL	6412	
	0	4	LCPL	6423	
	0	1	LCPL	6433	
	0	4	LCPL	6483	
	0	3	LCPL	6492	
	0	5	LCPL	6494	
	0	5	LCPL	6541	
	0	26	LCPL	6672	
	0	6	LCPL	6673	
	0	1	MGYSGT	6119	
	0	1	MGYSGT	6391	
	0	1	MGYSGT	6591	
	0	1	MGYSGT	6672	
	0	1	MGYSGT	9999	
	0	1	MSGT	0193	
	0	1	MSGT	0369	
	0	1	MSGT	6047	
	0	3	MSGT	6119	
	0	1	MSGT	6491	
	0	3	MSGT	6672	
	0	1	SGT	0121	
	0	1	SGT	2111	
	0	1	SGT	3052	
	0	1	SGT	6042	
	0	1	SGT	6044	6092
	0	4	SGT	6047	
	0	3	SGT	6060	
	0	5	SGT	6072	
	0	3	SGT	6073	
	0	2	SGT	6075	
	0	2	SGT	6092	
	0	2	SGT	6132	
	0	2	SGT	6135	
	0	1	SGT	6423	
0	2	SGT	6483		
0	2	SGT	6492		
0	2	SGT	6494		
0	1	SGT	6541		
0	16	SGT	6672		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USMC	0	1	SGT	6673	0311
	0	2	SGT	8711	
	0	1	SGT	9956	6092
	0	2	SSGT	6042	
	0	1	SSGT	6044	
	0	2	SSGT	6047	
	0	2	SSGT	6060	
	0	2	SSGT	6072	
	0	3	SSGT	6073	
	0	2	SSGT	6075	
	0	1	SSGT	6092	
	0	3	SSGT	6094	
	0	2	SSGT	6132	
	0	1	SSGT	6135	
	0	3	SSGT	6414	
	0	2	SSGT	6434	
	0	1	SSGT	6492	
	0	1	SSGT	6494	
	0	3	SSGT	6541	
	0	10	SSGT	6672	
0	1	SSGT	6673		
0	1	SSGT	8421		
MALS Rotary Wing West (2)	00000				
ACDU	1	0	2100		
	0	1	HM1	8404	
	0	1	HM2	8404	
	0	1	HM3	8404	
ACTIVITY TOTAL:	27	286			
MALSE Kaneohe	02300				
USMC	1	0	0170		
	2	0	6002		
	3	0	6004		
	1	0	6302		
	2	0	6602		
	4	0	6604		
	0	1	CPL	0121	
	0	1	CPL	0151	
	0	1	CPL	2161	
	0	1	CPL	3052	
	0	1	CPL	0431	
	0	2	CPL	6046	
	0	1	CPL	6060	
	0	1	CPL	6072	
	0	1	CPL	6073	
	0	1	CPL	6075	

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USMC	0	2	CPL	6094	6135
	0	1	CPL	6123	
	0	2	CPL	6413	
	0	2	CPL	6423	
	0	1	CPL	6433	
	0	2	CPL	6492	
	0	4	CPL	6494	
	0	10	CPL	6672	
	0	1	CPL	6673	
	0	1	GYSGT	0193	
	0	1	GYSGT	0491	
	0	1	GYSGT	6042	
	0	1	GYSGT	6044	
	0	2	GYSGT	6047	6048
	0	1	GYSGT	6060	
	0	1	GYSGT	6072	
	0	3	GYSGT	6073	
	0	1	GYSGT	6092	
	0	1	GYSGT	6123	
	0	2	GYSGT	6132	
	0	2	GYSGT	6414	
	0	1	GYSGT	6541	
	0	4	GYSGT	6672	
	0	1	LCPL	0121	
	0	1	LCPL	6060	
	0	1	LCPL	6072	
	0	2	LCPL	6073	
	0	1	LCPL	6075	
	0	2	LCPL	6092	
	0	3	LCPL	6423	
	0	2	LCPL	6483	
	0	3	LCPL	6492	
	0	1	LCPL	6541	
	0	12	LCPL	6672	
	0	3	LCPL	6673	
	0	1	MGYSGT	6119	
	0	1	MGYSGT	9999	
	0	3	MSGT	6119	
	0	1	MSGT	6391	
	0	2	MSGT	6672	
0	1	SGT	2161		
0	1	SGT	3052		
0	1	SGT	0311	8711	
0	1	SGT	6042		
0	3	SGT	6047		
0	1	SGT	6060		
0	1	SGT	6072		
0	1	SGT	6094		

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS		DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
	OFF	ENL			
USMC	0	2	SGT	6123	6135
	0	1	SGT	6492	
	0	1	SGT	6541	
	0	5	SGT	6672	
	0	2	SGT	6673	
	0	1	SGT	9916	
	0	1	SSGT	6047	
	0	1	SSGT	6075	
	0	1	SSGT	6092	
	0	1	SSGT	6094	
	0	1	SSGT	6123	
	0	3	SSGT	6414	
	0	1	SSGT	6434	
	0	1	SSGT	6492	
	0	2	SSGT	6494	
	0	1	SSGT	6541	
	0	7	SSGT	6672	
	0	1	SSGT	6673	
0	1	SSGT	8421		
MALSE Kaneohe	02300				
ACDU	1	0	2100		
	0	1	HM1	8404	
	0	1	HM2	8404	
ACTIVITY TOTAL:	14	144			
Site Support Edwards AFB	09749				
USMC	1	0	6602		
	1	0	7564		
	0	1	MGYSGT	9999	
	0	1	SGT	3043	
	0	1	SGT	6483	
	0	1	SGT	6672	
AR	0	1	GYSGT	6672	
	0	1	SGT	3043	
	0	1	SSGT	6672	
SMCR	1	0	4402		
ACTIVITY TOTAL:	3	7			

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
USMC OPERATIONAL ACTIVITIES - USMC													
0170		12		0		0		0		0		0	
6002		1		0		0		0		0		0	
6004		13		0		0		0		0		0	
6302		13		0		0		0		0		0	
7564		101		0		0		0		0		0	
7566		261		0		0		0		0		0	
CPL	0121		30		0		0		0		0		0
CPL	0151		4		0		0		0		0		0
CPL	0431		2		0		0		0		0		0
CPL	6042		7		0		0		0		0		0
CPL	6043	6092	8		0		0		0		0		0
CPL	6044	6092	9		0		0		0		0		0
CPL	6045		1		0		0		0		0		0
CPL	6045	6153	1		0		0		0		0		0
CPL	6046		36		0		0		0		0		0
CPL	6060		16		0		0		0		0		0
CPL	6072		4		0		0		0		0		0
CPL	6073		2		0		0		0		0		0
CPL	6092		9		0		0		0		0		0
CPL	6094		2		0		0		0		0		0
CPL	6113		107		0		0		0		0		0
CPL	6123	6135	22		0		0		0		0		0
CPL	6132		3		0		0		0		0		0
CPL	6153		116		0		0		0		0		0
CPL	6173		76		0		0		0		0		0
CPL	6323		119		0		0		0		0		0
CPL	6413		3		0		0		0		0		0
CPL	6423		2		0		0		0		0		0
CPL	6433		17		0		0		0		0		0
CPL	6483		2		0		0		0		0		0
CPL	6492		7		0		0		0		0		0
CPL	6531		16		0		0		0		0		0
CPL	6541		39		0		0		0		0		0
CPL	6672		20		0		0		0		0		0
CPL	7041		2		0		0		0		0		0
GYSGT	0193		6		0		0		0		0		0
GYSGT	6047	6048	24		0		0		0		0		0
GYSGT	6060		10		0		0		0		0		0
GYSGT	6092		2		0		0		0		0		0
GYSGT	6113		36		0		0		0		0		0
GYSGT	6123		1		0		0		0		0		0
GYSGT	6152		1		0		0		0		0		0
GYSGT	6153		21		0		0		0		0		0
GYSGT	6153	9954	6		0		0		0		0		0
GYSGT	6173		14		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
GYSGT	6323		30		0		0		0		0		0
GYSGT	6414		3		0		0		0		0		0
GYSGT	6531		12		0		0		0		0		0
LCPL	0121		34		0		0		0		0		0
LCPL	0151		1		0		0		0		0		0
LCPL	2111		14		0		0		0		0		0
LCPL	0231		12		0		0		0		0		0
LCPL	0431		22		0		0		0		0		0
LCPL	5711		2		0		0		0		0		0
LCPL	6042		15		0		0		0		0		0
LCPL	6043		7		0		0		0		0		0
LCPL	6043	6092	11		0		0		0		0		0
LCPL	6046		48		0		0		0		0		0
LCPL	6060		44		0		0		0		0		0
LCPL	6072		45		0		0		0		0		0
LCPL	6073		15		0		0		0		0		0
LCPL	6092		9		0		0		0		0		0
LCPL	6094		15		0		0		0		0		0
LCPL	6113		217		0		0		0		0		0
LCPL	6123		34		0		0		0		0		0
LCPL	6132		30		0		0		0		0		0
LCPL	6153		145		0		0		0		0		0
LCPL	6173		113		0		0		0		0		0
LCPL	6323		146		0		0		0		0		0
LCPL	6412		3		0		0		0		0		0
LCPL	6413		34		0		0		0		0		0
LCPL	6422		12		0		0		0		0		0
LCPL	6422	6412	8		0		0		0		0		0
LCPL	6433		40		0		0		0		0		0
LCPL	6483		16		0		0		0		0		0
LCPL	6492		22		0		0		0		0		0
LCPL	6531		38		0		0		0		0		0
LCPL	6541		8		0		0		0		0		0
LCPL	6672		54		0		0		0		0		0
LCPL	7041		37		0		0		0		0		0
MGYSGT	6119		3		0		0		0		0		0
MGYSGT	6391		1		0		0		0		0		0
MGYSGT	9999		12		0		0		0		0		0
MSGT	0193		6		0		0		0		0		0
MSGT	6119		19		0		0		0		0		0
MSGT	6391		9		0		0		0		0		0
SGT	0121		8		0		0		0		0		0
SGT	0151		12		0		0		0		0		0
SGT	0231		10		0		0		0		0		0
SGT	0431		12		0		0		0		0		0
SGT	6043		1		0		0		0		0		0
SGT	6044	6092	7		0		0		0		0		0
SGT	6045		1		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
SGT	6045	6153	1		0		0		0		0		0
SGT	6047		14		0		0		0		0		0
SGT	6060		26		0		0		0		0		0
SGT	6072		6		0		0		0		0		0
SGT	6073		9		0		0		0		0		0
SGT	6094		18		0		0		0		0		0
SGT	6113		91		0		0		0		0		0
SGT	6123		14		0		0		0		0		0
SGT	6132		1		0		0		0		0		0
SGT	6153		65		0		0		0		0		0
SGT	6173		62		0		0		0		0		0
SGT	6323		92		0		0		0		0		0
SGT	6412		2		0		0		0		0		0
SGT	6413		12		0		0		0		0		0
SGT	6422	6412	4		0		0		0		0		0
SGT	6433		13		0		0		0		0		0
SGT	6483		1		0		0		0		0		0
SGT	6492		2		0		0		0		0		0
SGT	6531		4		0		0		0		0		0
SGT	7041		1		0		0		0		0		0
SSGT	6044	6092	1		0		0		0		0		0
SSGT	6047		16		0		0		0		0		0
SSGT	6060		2		0		0		0		0		0
SSGT	6072		13		0		0		0		0		0
SSGT	6073		4		0		0		0		0		0
SSGT	6113		42		0		0		0		0		0
SSGT	6113	9954	7		0		0		0		0		0
SSGT	6123	6135	1		0		0		0		0		0
SSGT	6132		10		0		0		0		0		0
SSGT	6153		66		0		0		0		0		0
SSGT	6173		41		0		0		0		0		0
SSGT	6323		54		0		0		0		0		0
SSGT	6414		34		0		0		0		0		0
SSGT	6492		1		0		0		0		0		0
SSGT	6531		12		0		0		0		0		0
SSGT	7041		11		0		0		0		0		0
SSGT	8421		12		0		0		0		0		0
SSGT	8711		12		0		0		0		0		0
USMC OPERATIONAL ACTIVITIES - AR													
0170			2		0		0		0		0		0
6004			2		0		0		0		0		0
7566			4		0		0		0		0		0
CPL	0121		1		0		0		0		0		0
CPL	6113		4		0		0		0		0		0
CPL	6531		2		0		0		0		0		0
CPL	6541		1		0		0		0		0		0
LCPL	0431		1		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MSGT	0193		2		0		0		0		0		0
SGT	0151		1		0		0		0		0		0
SGT	6113		2		0		0		0		0		0
SGT	6153		2		0		0		0		0		0
SSGT	6113		2		0		0		0		0		0
SSGT	6132		2		0		0		0		0		0
SSGT	6153		2		0		0		0		0		0
SSGT	6173		2		0		0		0		0		0
SSGT	7041		2		0		0		0		0		0
SSGT	8421		1		0		0		0		0		0
SSGT	8711		2		0		0		0		0		0
USMC OPERATIONAL ACTIVITIES - SMCR													
7566			34		0		0		0		0		0
CPL	6123	6135	2		0		0		0		0		0
CPL	6153		6		0		0		0		0		0
CPL	6173		1		0		0		0		0		0
CPL	6174		1		0		0		0		0		0
CPL	6323		8		0		0		0		0		0
CPL	6433		2		0		0		0		0		0
GYSGT	6060		2		0		0		0		0		0
GYSGT	6153	9954	2		0		0		0		0		0
LCPL	0431		1		0		0		0		0		0
LCPL	6046		4		0		0		0		0		0
LCPL	6113		10		0		0		0		0		0
LCPL	6123		4		0		0		0		0		0
LCPL	6132		2		0		0		0		0		0
LCPL	6153		6		0		0		0		0		0
LCPL	6173		2		0		0		0		0		0
LCPL	6323		8		0		0		0		0		0
LCPL	6413		2		0		0		0		0		0
LCPL	6433		2		0		0		0		0		0
MGYSGT	9999		2		0		0		0		0		0
SGT	0231		2		0		0		0		0		0
SGT	6113		2		0		0		0		0		0
SGT	6173		2		0		0		0		0		0
SSGT	6414		2		0		0		0		0		0
SSGT	8421		1		0		0		0		0		0
USMC OPERATIONAL ACTIVITIES - ACDU													
2100			4		0		0		0		0		0
2102			10		0		0		0		0		0
HM1	8406		16		0		0		0		0		0
HM2	8404		4		0		0		0		0		0
HM2	8406		14		0		0		0		0		0
HM3	8404		6		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - USMC													
0170			5		0		0		0		0		0
0402			4		0		0		0		0		0
6002			22		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
6004		20		0		0		0		0		0	
6302		9		0		0		0		0		0	
6502		4		0		0		0		0		0	
6602		31		0		0		0		0		0	
6604		25		0		0		0		0		0	
7564		1		0		0		0		0		0	
CPL	0121		5		0		0		0		0		0
CPL	0151		5		0		0		0		0		0
CPL	2161		1		0		0		0		0		0
CPL	3052		5		0		0		0		0		0
CPL	0431		5		0		0		0		0		0
CPL	6042		4		0		0		0		0		0
CPL	6046		10		0		0		0		0		0
CPL	6060		13		0		0		0		0		0
CPL	6072		1		0		0		0		0		0
CPL	6073		9		0		0		0		0		0
CPL	6075		9		0		0		0		0		0
CPL	6094		6		0		0		0		0		0
CPL	6123	6135	1		0		0		0		0		0
CPL	6132		16		0		0		0		0		0
CPL	6135		8		0		0		0		0		0
CPL	6413		2		0		0		0		0		0
CPL	6423		6		0		0		0		0		0
CPL	6433		1		0		0		0		0		0
CPL	6492		6		0		0		0		0		0
CPL	6494		12		0		0		0		0		0
CPL	6541		4		0		0		0		0		0
CPL	6672		82		0		0		0		0		0
CPL	6673		13		0		0		0		0		0
GYSGT	0193		1		0		0		0		0		0
GYSGT	0491		5		0		0		0		0		0
GYSGT	6042		5		0		0		0		0		0
GYSGT	6044	6092	1		0		0		0		0		0
GYSGT	6047		4		0		0		0		0		0
GYSGT	6047	6048	6		0		0		0		0		0
GYSGT	6060		5		0		0		0		0		0
GYSGT	6072		9		0		0		0		0		0
GYSGT	6073		11		0		0		0		0		0
GYSGT	6075		4		0		0		0		0		0
GYSGT	6092		1		0		0		0		0		0
GYSGT	6123		5		0		0		0		0		0
GYSGT	6124		4		0		0		0		0		0
GYSGT	6132		10		0		0		0		0		0
GYSGT	6152		4		0		0		0		0		0
GYSGT	6414		18		0		0		0		0		0
GYSGT	6434		8		0		0		0		0		0
GYSGT	6492		4		0		0		0		0		0
GYSGT	6494		4		0		0		0		0		0
GYSGT	6541		9		0		0		0		0		0
GYSGT	6672		29		0		0		0		0		0
LCPL	0121		9		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
LCPL	0151		8		0		0		0		0		0
LCPL	2111		4		0		0		0		0		0
LCPL	2161		8		0		0		0		0		0
LCPL	3052		4		0		0		0		0		0
LCPL	0431		4		0		0		0		0		0
LCPL	6042		12		0		0		0		0		0
LCPL	6046		28		0		0		0		0		0
LCPL	6060		21		0		0		0		0		0
LCPL	6072		13		0		0		0		0		0
LCPL	6073		14		0		0		0		0		0
LCPL	6075		21		0		0		0		0		0
LCPL	6092		6		0		0		0		0		0
LCPL	6412		4		0		0		0		0		0
LCPL	6423		19		0		0		0		0		0
LCPL	6433		4		0		0		0		0		0
LCPL	6483		18		0		0		0		0		0
LCPL	6492		15		0		0		0		0		0
LCPL	6494		20		0		0		0		0		0
LCPL	6541		21		0		0		0		0		0
LCPL	6672		116		0		0		0		0		0
LCPL	6673		27		0		0		0		0		0
MGYSGT	6119		5		0		0		0		0		0
MGYSGT	6391		4		0		0		0		0		0
MGYSGT	6591		4		0		0		0		0		0
MGYSGT	6672		4		0		0		0		0		0
MGYSGT	9999		7		0		0		0		0		0
MSGT	0193		4		0		0		0		0		0
MSGT	0369		4		0		0		0		0		0
MSGT	6047		4		0		0		0		0		0
MSGT	6119		16		0		0		0		0		0
MSGT	6391		1		0		0		0		0		0
MSGT	6491		4		0		0		0		0		0
MSGT	6672		14		0		0		0		0		0
SGT	0121		4		0		0		0		0		0
SGT	2111		4		0		0		0		0		0
SGT	2161		1		0		0		0		0		0
SGT	3043		1		0		0		0		0		0
SGT	3052		5		0		0		0		0		0
SGT	0311	8711	1		0		0		0		0		0
SGT	6042		5		0		0		0		0		0
SGT	6044	6092	4		0		0		0		0		0
SGT	6047		19		0		0		0		0		0
SGT	6060		13		0		0		0		0		0
SGT	6072		21		0		0		0		0		0
SGT	6073		12		0		0		0		0		0
SGT	6075		8		0		0		0		0		0
SGT	6092		8		0		0		0		0		0
SGT	6094		1		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
SGT	6123		2		0		0		0		0		0
SGT	6132		8		0		0		0		0		0
SGT	6135		8		0		0		0		0		0
SGT	6423		4		0		0		0		0		0
SGT	6483		9		0		0		0		0		0
SGT	6492		9		0		0		0		0		0
SGT	6494		8		0		0		0		0		0
SGT	6541		5		0		0		0		0		0
SGT	6672		71		0		0		0		0		0
SGT	6673		6		0		0		0		0		0
SGT	8711	3114	8		0		0		0		0		0
SGT	9916		1		0		0		0		0		0
SGT	9956		4		0		0		0		0		0
SSGT	3043		1		0		0		0		0		0
SSGT	6042		8		0		0		0		0		0
SSGT	6044	6092	4		0		0		0		0		0
SSGT	6047		9		0		0		0		0		0
SSGT	6060		8		0		0		0		0		0
SSGT	6072		8		0		0		0		0		0
SSGT	6073		12		0		0		0		0		0
SSGT	6075		9		0		0		0		0		0
SSGT	6092		5		0		0		0		0		0
SSGT	6094		13		0		0		0		0		0
SSGT	6123	6135	1		0		0		0		0		0
SSGT	6132		8		0		0		0		0		0
SSGT	6135		4		0		0		0		0		0
SSGT	6414		15		0		0		0		0		0
SSGT	6434		9		0		0		0		0		0
SSGT	6492		5		0		0		0		0		0
SSGT	6494		6		0		0		0		0		0
SSGT	6541		13		0		0		0		0		0
SSGT	6672		48		0		0		0		0		0
SSGT	6673		5		0		0		0		0		0
SSGT	8421		5		0		0		0		0		0
USMC FLEET SUPPORT ACTIVITIES - AR													
6502			1		0		0		0		0		0
9967			1		0		0		0		0		0
GYSGT	6672		1		0		0		0		0		0
SGT	1142		1		0		0		0		0		0
SGT	3043		2		0		0		0		0		0
SGT	4066		1		0		0		0		0		0
SSGT	1341		1		0		0		0		0		0
SSGT	3529		1		0		0		0		0		0
SSGT	6672		1		0		0		0		0		0
SSGT	8711		1		0		0		0		0		0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
USMC FLEET SUPPORT ACTIVITIES - SMCR													
4402		2		0		0		0		0		0	
9906		1		0		0		0		0		0	
USMC FLEET SUPPORT ACTIVITIES - ACDU													
2100		5		0		0		0		0		0	
HM1	8404		5	0		0		0		0		0	
HM2	8404		5	0		0		0		0		0	
HM3	8404		4	0		0		0		0		0	
SUMMARY TOTALS:													
USMC OPERATIONAL ACTIVITIES - USMC													
		401	2977	0	0	0	0	0	0	0	0	0	0
USMC OPERATIONAL ACTIVITIES - AR													
		8	29	0	0	0	0	0	0	0	0	0	0
USMC OPERATIONAL ACTIVITIES - SMCR													
		34	76	0	0	0	0	0	0	0	0	0	0
USMC OPERATIONAL ACTIVITIES - ACDU													
		6	40	0	0	0	0	0	0	0	0	0	0
USMC FLEET SUPPORT ACTIVITIES - USMC													
		121	1284	0	0	0	0	0	0	0	0	0	0
USMC FLEET SUPPORT ACTIVITIES - AR													
		2	9	0	0	0	0	0	0	0	0	0	0
USMC FLEET SUPPORT ACTIVITIES - SMCR													
		3		0		0		0		0		0	
USMC FLEET SUPPORT ACTIVITIES - ACDU													
		5	14	0	0	0	0	0	0	0	0	0	0

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
GRAND TOTALS:													
USMC - USMC		522	4261	0	0	0	0	0	0	0	0	0	0
USMC - AR		10	38	0	0	0	0	0	0	0	0	0	0
USMC - SMCR		37	76	0	0	0	0	0	0	0	0	0	0
USMC - ACDU		25	114	0	0	0	0	0	0	0	0	0	0

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL

TRAINING ACTIVITY, LOCATION, UIC: HMT 302 FREST, MCAS New River, 31493

INSTRUCTOR BILLETS

USMC

6004			1	0	1	0	1	0	1	0	1	0	1	0
6302			1	0	1	0	1	0	1	0	1	0	1	0
CPL	6113		0	6	0	6	0	6	0	6	0	6	0	6
CPL	6123	6135	0	2	0	2	0	2	0	2	0	2	0	2
CPL	6132		0	2	0	2	0	2	0	2	0	2	0	2
CPL	6153		0	4	0	4	0	4	0	4	0	4	0	4
CPL	6173		0	7	0	7	0	7	0	7	0	7	0	7
CPL	6323		0	3	0	3	0	3	0	3	0	3	0	3
GYSGT	6113		0	2	0	2	0	2	0	2	0	2	0	2
GYSGT	6173		0	1	0	1	0	1	0	1	0	1	0	1
GYSGT	6323		0	3	0	3	0	3	0	3	0	3	0	3
MSGT	6119		0	1	0	1	0	1	0	1	0	1	0	1
SGT	6113		0	9	0	9	0	9	0	9	0	9	0	9
SGT	6153		0	4	0	4	0	4	0	4	0	4	0	4
SGT	6173		0	2	0	2	0	2	0	2	0	2	0	2
SGT	6323		0	3	0	3	0	3	0	3	0	3	0	3
SGT	6433		0	2	0	2	0	2	0	2	0	2	0	2
SSGT	6123	6135	0	1	0	1	0	1	0	1	0	1	0	1
SSGT	6132		0	1	0	1	0	1	0	1	0	1	0	1
SSGT	6153		0	2	0	2	0	2	0	2	0	2	0	2
SSGT	6323		0	3	0	3	0	3	0	3	0	3	0	3
SSGT	6434		0	2	0	2	0	2	0	2	0	2	0	2

ACDU

ADC	8226	9502	0	1	0	1	0	1	0	1	0	1	0	1
AD1	8226	9502	0	2	0	2	0	2	0	2	0	2	0	2
AD2	8226	9502	0	4	0	4	0	4	0	4	0	4	0	4
AD2	8303	9502	0	4	0	4	0	4	0	4	0	4	0	4

SUPPORT BILLETS

USMC

6002			1	0	1	0	1	0	1	0	1	0	1	0
CPL	0151		0	1	0	1	0	1	0	1	0	1	0	1
CPL	6042		0	1	0	1	0	1	0	1	0	1	0	1
CPL	6672		0	1	0	1	0	1	0	1	0	1	0	1
CPL	7041		0	1	0	1	0	1	0	1	0	1	0	1
CPL	4066		0	1	0	1	0	1	0	1	0	1	0	1
GYSGT	6113		0	1	0	1	0	1	0	1	0	1	0	1
GYSGT	6123		0	1	0	1	0	1	0	1	0	1	0	1
GYSGT	6414		0	1	0	1	0	1	0	1	0	1	0	1
LCPL	0121		0	2	0	2	0	2	0	2	0	2	0	2
LCPL	0151		0	1	0	1	0	1	0	1	0	1	0	1

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY01		FY02		FY03		FY04		FY05		
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
LCPL	6042	0	1	0	1	0	1	0	1	0	1	0	1	
LCPL	4066	0	1	0	1	0	1	0	1	0	1	0	1	
SGT	6153	0	1	0	1	0	1	0	1	0	1	0	1	
SGT	6672	0	1	0	1	0	1	0	1	0	1	0	1	
SSGT	6047	0	1	0	1	0	1	0	1	0	1	0	1	
SSGT	6113	0	1	0	1	0	1	0	1	0	1	0	1	
SSGT	6123	6135	0	1	0	1	0	1	0	1	0	1	0	1
SSGT	6153		0	1	0	1	0	1	0	1	0	1	0	1
SSGT	6323		0	1	0	1	0	1	0	1	0	1	0	1
SSGT	0193		0	1	0	1	0	1	0	1	0	1	0	1
TOTAL:			3	92	3	92	3	92	3	92	3	92	3	92

TRAINING ACTIVITY, LOCATION, UIC: HMT 302, MCAS New River, 55203

INSTRUCTOR BILLETS

USMC													
7566		21	0	21	0	21	0	21	0	21	0	21	0

SUPPORT BILLETS

USMC													
CPL	6173	0	9	0	9	0	9	0	9	0	9	0	9
GYSGT	6173	0	1	0	1	0	1	0	1	0	1	0	1
LCPL	6173	0	10	0	10	0	10	0	10	0	10	0	10
SGT	6173	0	3	0	3	0	3	0	3	0	3	0	3
SSGT	6173	0	2	0	2	0	2	0	2	0	2	0	2
TOTAL:		21	25	21	25	21	25	21	25	21	25	21	25

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs		CFY01		FY02		FY03		FY04		FY05	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT 302, MCAS New River, North Carolina, 8591E	USMC	25.4		25.4		25.4		25.4		25.4		25.4	
HMT 302 FREST, MCAS New River, North Carolina, 31493	USMC		148.1		148.1		148.1		148.1		148.1		148.1
HMT 303 FREST, Camp Pendleton, California, 55176	USMC		3.9		3.9		3.9		3.9		3.9		3.9
VMAT 203 FREST, MCAS Cherry Point, North Carolina, 45483	USMC		5.2		5.2		5.2		5.2		5.2		5.2
MTU 1007 NAMTRAU Oceana, Virginia, 66045	USMC		0.4		0.4		0.4		0.4		0.4		0.4
MTU 1038 NAMTRAU Lemoore, California, 39472	USMC		0.8		0.8		0.8		0.8		0.8		0.8
MTU 3001 NAMTRAGRU DET Cherry Point, North Carolina, 31511	USMC		5.4		5.4		5.4		5.4		5.4		5.4
MTU 3032 NAMTRAU Jacksonville, Florida, 39469	USMC		13.4		13.4		13.4		13.4		13.4		13.4
MTU 3033 NAMTRAU North Island, California, 66065	USMC		9.1		9.1		9.1		9.1		9.1		9.1
FLETRACEN Norfolk, Virginia, 30811	USMC		0.1		0.1		0.1		0.1		0.1		0.1
FLETRACEN San Diego, California, 30808	USMC		0.1		0.1		0.1		0.1		0.1		0.1
NATTC Pensacola, Florida, 39831	USMC		2.0		2.0		2.0		2.0		2.0		2.0
NAVAVNDEPOT Cherry Point, North Carolina, 65923	USMC		0.3		0.3		0.3		0.3		0.3		0.3
NAVAVNDEPOT North Island, California, 65888	USMC		0.6		0.6		0.6		0.6		0.6		0.6
SUMMARY TOTALS:													
	USMC	25.4	191.4	25.4	191.4	25.4	191.4	25.4	191.4	25.4	191.4	25.4	191.4
GRAND TOTALS:													
		25.4	191.4	25.4	191.4	25.4	191.4	25.4	191.4	25.4	191.4	25.4	191.4

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01		FY02		FY03		FY04		FY05	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM

a. OFFICER - USN

Operational Billets ACDU and TAR

1310			1	0	1	0	1	0	1	0	1	0	1
1311			5	0	5	0	5	0	5	0	5	0	5

Fleet Support Billets ACDU and TAR

2100			5	0	5	0	5	0	5	0	5	0	5
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TOTAL USN OFFICER BILLETS:

Operational			6	0	6	0	6	0	6	0	6	0	6
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Fleet Support			5	0	5	0	5	0	5	0	5	0	5
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b. ENLISTED - USN

Operational Billets ACDU and TAR

HM1	8406		16	0	16	0	16	0	16	0	16	0	16
HM2	8404		4	0	4	0	4	0	4	0	4	0	4
HM2	8406		14	0	14	0	14	0	14	0	14	0	14
HM3	8404		6	0	6	0	6	0	6	0	6	0	6

Fleet Support Billets ACDU and TAR

HM1	8404		5	0	5	0	5	0	5	0	5	0	5
HM2	8404		5	0	5	0	5	0	5	0	5	0	5
HM3	8404		4	0	4	0	4	0	4	0	4	0	4

Staff Billets ACDU and TAR

ADC	8226	9502	1	0	1	0	1	0	1	0	1	0	1
AD1	8226	9502	2	0	2	0	2	0	2	0	2	0	2
AD2	8226	9502	4	0	4	0	4	0	4	0	4	0	4
AD2	8303	9502	4	0	4	0	4	0	4	0	4	0	4

TOTAL USN ENLISTED BILLETS:

Operational			40	0	40	0	40	0	40	0	40	0	40
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Fleet Support			14	0	14	0	14	0	14	0	14	0	14
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Staff			11	0	11	0	11	0	11	0	11	0	11
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II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01		FY02		FY03		FY04		FY05	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM

c. OFFICER - USMC

Operational Billets USMC and AR

0170			14	0	14	0	14	0	14	0	14	0	14
6002			1	0	1	0	1	0	1	0	1	0	1
6004			15	0	15	0	15	0	15	0	15	0	15
6302			13	0	13	0	13	0	13	0	13	0	13
7564			101	0	101	0	101	0	101	0	101	0	101
7566			265	0	265	0	265	0	265	0	265	0	265

Fleet Support Billets USMC and AR

0170			5	0	5	0	5	0	5	0	5	0	5
0402			4	0	4	0	4	0	4	0	4	0	4
6002			22	0	22	0	22	0	22	0	22	0	22
6004			20	0	20	0	20	0	20	0	20	0	20
6302			9	0	9	0	9	0	9	0	9	0	9
6502			5	0	5	0	5	0	5	0	5	0	5
6602			31	0	31	0	31	0	31	0	31	0	31
6604			25	0	25	0	25	0	25	0	25	0	25
7564			1	0	1	0	1	0	1	0	1	0	1
9967			1	0	1	0	1	0	1	0	1	0	1

Staff Billets USMC and AR

6002			1	0	1	0	1	0	1	0	1	0	1
6004			1	0	1	0	1	0	1	0	1	0	1
6302			1	0	1	0	1	0	1	0	1	0	1
7566			21	0	21	0	21	0	21	0	21	0	21

Chargeable Student Billets USMC and AR

			25	0	25	0	25	0	25	0	25	0	25
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SMCR Billets

4402			2	0	2	0	2	0	2	0	2	0	2
7566			34	0	34	0	34	0	34	0	34	0	34
9906			1	0	1	0	1	0	1	0	1	0	1

TOTAL USMC OFFICER BILLETS:

Operational			409	0	409	0	409	0	409	0	409	0	409
Fleet Support			123	0	123	0	123	0	123	0	123	0	123
Staff			24	0	24	0	24	0	24	0	24	0	24
Chargeable Student			25	0	25	0	25	0	25	0	25	0	25
SMCR			37	0	37	0	37	0	37	0	37	0	37

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01		FY02		FY03		FY04		FY05	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
d. ENLISTED - USMC													
Operational Billets USMC and AR													
CPL	0121		31	0	31	0	31	0	31	0	31	0	31
CPL	0151		4	0	4	0	4	0	4	0	4	0	4
CPL	0431		2	0	2	0	2	0	2	0	2	0	2
CPL	6042		7	0	7	0	7	0	7	0	7	0	7
CPL	6043	6092	8	0	8	0	8	0	8	0	8	0	8
CPL	6044	6092	9	0	9	0	9	0	9	0	9	0	9
CPL	6045		1	0	1	0	1	0	1	0	1	0	1
CPL	6045	6153	1	0	1	0	1	0	1	0	1	0	1
CPL	6046		36	0	36	0	36	0	36	0	36	0	36
CPL	6060		16	0	16	0	16	0	16	0	16	0	16
CPL	6073		2	0	2	0	2	0	2	0	2	0	2
CPL	6072		4	0	4	0	4	0	4	0	4	0	4
CPL	6092		9	0	9	0	9	0	9	0	9	0	9
CPL	6094		2	0	2	0	2	0	2	0	2	0	2
CPL	6113		111	0	111	0	111	0	111	0	111	0	111
CPL	6123	6135	22	0	22	0	22	0	22	0	22	0	22
CPL	6132		3	0	3	0	3	0	3	0	3	0	3
CPL	6153		116	0	116	0	116	0	116	0	116	0	116
CPL	6173		76	0	76	0	76	0	76	0	76	0	76
CPL	6323		119	0	119	0	119	0	119	0	119	0	119
CPL	6413		3	0	3	0	3	0	3	0	3	0	3
CPL	6423		2	0	2	0	2	0	2	0	2	0	2
CPL	6433		17	0	17	0	17	0	17	0	17	0	17
CPL	6483		2	0	2	0	2	0	2	0	2	0	2
CPL	6492		7	0	7	0	7	0	7	0	7	0	7
CPL	6531		18	0	18	0	18	0	18	0	18	0	18
CPL	6541		40	0	40	0	40	0	40	0	40	0	40
CPL	6672		20	0	20	0	20	0	20	0	20	0	20
CPL	7041		2	0	2	0	2	0	2	0	2	0	2
GYSGT	0193		6	0	6	0	6	0	6	0	6	0	6
GYSGT	6047	6048	24	0	24	0	24	0	24	0	24	0	24
GYSGT	6060		10	0	10	0	10	0	10	0	10	0	10
GYSGT	6092		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6113		36	0	36	0	36	0	36	0	36	0	36
GYSGT	6123		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6152		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6153		21	0	21	0	21	0	21	0	21	0	21
GYSGT	6153	9954	6	0	6	0	6	0	6	0	6	0	6
GYSGT	6173		14	0	14	0	14	0	14	0	14	0	14
GYSGT	6323		30	0	30	0	30	0	30	0	30	0	30
GYSGT	6414		3	0	3	0	3	0	3	0	3	0	3
GYSGT	6531		12	0	12	0	12	0	12	0	12	0	12
LCPL	0121		34	0	34	0	34	0	34	0	34	0	34
LCPL	0151		1	0	1	0	1	0	1	0	1	0	1
LCPL	2111		14	0	14	0	14	0	14	0	14	0	14
LCPL	0231		12	0	12	0	12	0	12	0	12	0	12
LCPL	0431		23	0	23	0	23	0	23	0	23	0	23

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01		FY02		FY03		FY04		FY05	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
LCPL	5711		2	0	2	0	2	0	2	0	2	0	2
LCPL	6042		15	0	15	0	15	0	15	0	15	0	15
LCPL	6043		7	0	7	0	7	0	7	0	7	0	7
LCPL	6043	6092	11	0	11	0	11	0	11	0	11	0	11
LCPL	6046		48	0	48	0	48	0	48	0	48	0	48
LCPL	6060		44	0	44	0	44	0	44	0	44	0	44
LCPL	6072		45	0	45	0	45	0	45	0	45	0	45
LCPL	6073		15	0	15	0	15	0	15	0	15	0	15
LCPL	6092		9	0	9	0	9	0	9	0	9	0	9
LCPL	6094		15	0	15	0	15	0	15	0	15	0	15
LCPL	6113		217	0	217	0	217	0	217	0	217	0	217
LCPL	6123		34	0	34	0	34	0	34	0	34	0	34
LCPL	6132		30	0	30	0	30	0	30	0	30	0	30
LCPL	6153		145	0	145	0	145	0	145	0	145	0	145
LCPL	6412		3	0	3	0	3	0	3	0	3	0	3
LCPL	6173		113	0	113	0	113	0	113	0	113	0	113
LCPL	6323		146	0	146	0	146	0	146	0	146	0	146
LCPL	6413		34	0	34	0	34	0	34	0	34	0	34
LCPL	6422		12	0	12	0	12	0	12	0	12	0	12
LCPL	6422	6412	8	0	8	0	8	0	8	0	8	0	8
LCPL	6433		40	0	40	0	40	0	40	0	40	0	40
LCPL	6483		16	0	16	0	16	0	16	0	16	0	16
LCPL	6492		22	0	22	0	22	0	22	0	22	0	22
LCPL	6531		38	0	38	0	38	0	38	0	38	0	38
LCPL	6541		8	0	8	0	8	0	8	0	8	0	8
LCPL	6672		54	0	54	0	54	0	54	0	54	0	54
LCPL	7041		37	0	37	0	37	0	37	0	37	0	37
MGYSGT	6119		3	0	3	0	3	0	3	0	3	0	3
MGYSGT	6391		1	0	1	0	1	0	1	0	1	0	1
MGYSGT	9999		12	0	12	0	12	0	12	0	12	0	12
MSGT	0193		8	0	8	0	8	0	8	0	8	0	8
MSGT	6119		19	0	19	0	19	0	19	0	19	0	19
MSGT	6391		9	0	9	0	9	0	9	0	9	0	9
SGT	0121		8	0	8	0	8	0	8	0	8	0	8
SGT	0151		13	0	13	0	13	0	13	0	13	0	13
SGT	0231		10	0	10	0	10	0	10	0	10	0	10
SGT	0431		12	0	12	0	12	0	12	0	12	0	12
SGT	6043		1	0	1	0	1	0	1	0	1	0	1
SGT	6044	6092	7	0	7	0	7	0	7	0	7	0	7
SGT	6045		1	0	1	0	1	0	1	0	1	0	1
SGT	6045	6153	1	0	1	0	1	0	1	0	1	0	1
SGT	6047		14	0	14	0	14	0	14	0	14	0	14
SGT	6060		26	0	26	0	26	0	26	0	26	0	26
SGT	6072		6	0	6	0	6	0	6	0	6	0	6
SGT	6073		9	0	9	0	9	0	9	0	9	0	9
SGT	6094		18	0	18	0	18	0	18	0	18	0	18
SGT	6113		93	0	93	0	93	0	93	0	93	0	93
SGT	6123		14	0	14	0	14	0	14	0	14	0	14
SGT	6132		1	0	1	0	1	0	1	0	1	0	1
SGT	6153		67	0	67	0	67	0	67	0	67	0	67

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01		FY02		FY03		FY04		FY05	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
SGT	6173		62	0	62	0	62	0	62	0	62	0	62
SGT	6323		92	0	92	0	92	0	92	0	92	0	92
SGT	6412		2	0	2	0	2	0	2	0	2	0	2
SGT	6413		12	0	12	0	12	0	12	0	12	0	12
SGT	6422	6412	4	0	4	0	4	0	4	0	4	0	4
SGT	6433		13	0	13	0	13	0	13	0	13	0	13
SGT	6483		1	0	1	0	1	0	1	0	1	0	1
SGT	6492		2	0	2	0	2	0	2	0	2	0	2
SGT	6531		4	0	4	0	4	0	4	0	4	0	4
SGT	7041		1	0	1	0	1	0	1	0	1	0	1
SSGT	6044	6092	1	0	1	0	1	0	1	0	1	0	1
SSGT	6047		16	0	16	0	16	0	16	0	16	0	16
SSGT	6060		2	0	2	0	2	0	2	0	2	0	2
SSGT	6072		13	0	13	0	13	0	13	0	13	0	13
SSGT	6073		4	0	4	0	4	0	4	0	4	0	4
SSGT	6113		44	0	44	0	44	0	44	0	44	0	44
SSGT	6123	6135	1	0	1	0	1	0	1	0	1	0	1
SSGT	6132		12	0	12	0	12	0	12	0	12	0	12
SSGT	6153		68	0	68	0	68	0	68	0	68	0	68
SSGT	6173		43	0	43	0	43	0	43	0	43	0	43
SSGT	6323		54	0	54	0	54	0	54	0	54	0	54
SSGT	6414		34	0	34	0	34	0	34	0	34	0	34
SSGT	6492		1	0	1	0	1	0	1	0	1	0	1
SSGT	6531		12	0	12	0	12	0	12	0	12	0	12
SSGT	7041		13	0	13	0	13	0	13	0	13	0	13
SSGT	8421		13	0	13	0	13	0	13	0	13	0	13
SSGT	8711		14	0	14	0	14	0	14	0	14	0	14
Fleet Support Billets USMC and AR													
CPL	0121		5	0	5	0	5	0	5	0	5	0	5
CPL	0151		5	0	5	0	5	0	5	0	5	0	5
CPL	2161		1	0	1	0	1	0	1	0	1	0	1
CPL	3052		5	0	5	0	5	0	5	0	5	0	5
CPL	0431		5	0	5	0	5	0	5	0	5	0	5
CPL	6042		4	0	4	0	4	0	4	0	4	0	4
CPL	6046		10	0	10	0	10	0	10	0	10	0	10
CPL	6060		13	0	13	0	13	0	13	0	13	0	13
CPL	6072		1	0	1	0	1	0	1	0	1	0	1
CPL	6073		9	0	9	0	9	0	9	0	9	0	9
CPL	6075		9	0	9	0	9	0	9	0	9	0	9
CPL	6094		6	0	6	0	6	0	6	0	6	0	6
CPL	6123	6135	1	0	1	0	1	0	1	0	1	0	1
CPL	6132		16	0	16	0	16	0	16	0	16	0	16
CPL	6135		8	0	8	0	8	0	8	0	8	0	8
CPL	6413		2	0	2	0	2	0	2	0	2	0	2
CPL	6423		6	0	6	0	6	0	6	0	6	0	6
CPL	6433		1	0	1	0	1	0	1	0	1	0	1
CPL	6492		6	0	6	0	6	0	6	0	6	0	6
CPL	6494		12	0	12	0	12	0	12	0	12	0	12
CPL	6541		4	0	4	0	4	0	4	0	4	0	4

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01		FY02		FY03		FY04		FY05	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
CPL	6672		82	0	82	0	82	0	82	0	82	0	82
CPL	6673		13	0	13	0	13	0	13	0	13	0	13
GYSGT	0193		1	0	1	0	1	0	1	0	1	0	1
GYSGT	0491		5	0	5	0	5	0	5	0	5	0	5
GYSGT	6042		5	0	5	0	5	0	5	0	5	0	5
GYSGT	6044	6092	1	0	1	0	1	0	1	0	1	0	1
GYSGT	6047		4	0	4	0	4	0	4	0	4	0	4
GYSGT	6047	6048	6	0	6	0	6	0	6	0	6	0	6
GYSGT	6060		5	0	5	0	5	0	5	0	5	0	5
GYSGT	6072		9	0	9	0	9	0	9	0	9	0	9
GYSGT	6073		11	0	11	0	11	0	11	0	11	0	11
GYSGT	6075		4	0	4	0	4	0	4	0	4	0	4
GYSGT	6092		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6123		5	0	5	0	5	0	5	0	5	0	5
GYSGT	6124		4	0	4	0	4	0	4	0	4	0	4
GYSGT	6132		10	0	10	0	10	0	10	0	10	0	10
GYSGT	6414		18	0	18	0	18	0	18	0	18	0	18
GYSGT	6152		4	0	4	0	4	0	4	0	4	0	4
GYSGT	6434		8	0	8	0	8	0	8	0	8	0	8
GYSGT	6492		4	0	4	0	4	0	4	0	4	0	4
GYSGT	6494		4	0	4	0	4	0	4	0	4	0	4
GYSGT	6541		9	0	9	0	9	0	9	0	9	0	9
GYSGT	6672		30	0	30	0	30	0	30	0	30	0	30
LCPL	0121		9	0	9	0	9	0	9	0	9	0	9
LCPL	0151		8	0	8	0	8	0	8	0	8	0	8
LCPL	2111		4	0	4	0	4	0	4	0	4	0	4
LCPL	2161		8	0	8	0	8	0	8	0	8	0	8
LCPL	3052		4	0	4	0	4	0	4	0	4	0	4
LCPL	0431		4	0	4	0	4	0	4	0	4	0	4
LCPL	6042		12	0	12	0	12	0	12	0	12	0	12
LCPL	6046		28	0	28	0	28	0	28	0	28	0	28
LCPL	6060		21	0	21	0	21	0	21	0	21	0	21
LCPL	6072		13	0	13	0	13	0	13	0	13	0	13
LCPL	6073		14	0	14	0	14	0	14	0	14	0	14
LCPL	6075		21	0	21	0	21	0	21	0	21	0	21
LCPL	6092		6	0	6	0	6	0	6	0	6	0	6
LCPL	6412		4	0	4	0	4	0	4	0	4	0	4
LCPL	6423		19	0	19	0	19	0	19	0	19	0	19
LCPL	6433		4	0	4	0	4	0	4	0	4	0	4
LCPL	6483		18	0	18	0	18	0	18	0	18	0	18
LCPL	6492		15	0	15	0	15	0	15	0	15	0	15
LCPL	6494		20	0	20	0	20	0	20	0	20	0	20
LCPL	6541		21	0	21	0	21	0	21	0	21	0	21
LCPL	6672		116	0	116	0	116	0	116	0	116	0	116
LCPL	6673		27	0	27	0	27	0	27	0	27	0	27
MGYSGT	6119		5	0	5	0	5	0	5	0	5	0	5
MGYSGT	6391		4	0	4	0	4	0	4	0	4	0	4
MGYSGT	6591		4	0	4	0	4	0	4	0	4	0	4
MGYSGT	6672		4	0	4	0	4	0	4	0	4	0	4
MGYSGT	9999		7	0	7	0	7	0	7	0	7	0	7

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01		FY02		FY03		FY04		FY05	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
MSGT	0193		4	0	4	0	4	0	4	0	4	0	4
MSGT	0369		4	0	4	0	4	0	4	0	4	0	4
MSGT	6047		4	0	4	0	4	0	4	0	4	0	4
MSGT	6119		16	0	16	0	16	0	16	0	16	0	16
MSGT	6391		1	0	1	0	1	0	1	0	1	0	1
MSGT	6491		4	0	4	0	4	0	4	0	4	0	4
MSGT	6672		14	0	14	0	14	0	14	0	14	0	14
SGT	1142		1	0	1	0	1	0	1	0	1	0	1
SGT	0121		4	0	4	0	4	0	4	0	4	0	4
SGT	2111		4	0	4	0	4	0	4	0	4	0	4
SGT	2161		1	0	1	0	1	0	1	0	1	0	1
SGT	3043		3	0	3	0	3	0	3	0	3	0	3
SGT	3052		5	0	5	0	5	0	5	0	5	0	5
SGT	0311	8711	1	0	1	0	1	0	1	0	1	0	1
SGT	4066		1	0	1	0	1	0	1	0	1	0	1
SGT	6042		5	0	5	0	5	0	5	0	5	0	5
SGT	6044	6092	4	0	4	0	4	0	4	0	4	0	4
SGT	6060		13	0	13	0	13	0	13	0	13	0	13
SGT	6047		19	0	19	0	19	0	19	0	19	0	19
SGT	6072		21	0	21	0	21	0	21	0	21	0	21
SGT	6073		12	0	12	0	12	0	12	0	12	0	12
SGT	6075		8	0	8	0	8	0	8	0	8	0	8
SGT	6092		8	0	8	0	8	0	8	0	8	0	8
SGT	6094		1	0	1	0	1	0	1	0	1	0	1
SGT	6123		2	0	2	0	2	0	2	0	2	0	2
SGT	6132		8	0	8	0	8	0	8	0	8	0	8
SGT	6135		8	0	8	0	8	0	8	0	8	0	8
SGT	6423		4	0	4	0	4	0	4	0	4	0	4
SGT	6483		9	0	9	0	9	0	9	0	9	0	9
SGT	6492		9	0	9	0	9	0	9	0	9	0	9
SGT	6494		8	0	8	0	8	0	8	0	8	0	8
SGT	6541		5	0	5	0	5	0	5	0	5	0	5
SGT	6672		71	0	71	0	71	0	71	0	71	0	71
SGT	6673		6	0	6	0	6	0	6	0	6	0	6
SGT	8711	3114	8	0	8	0	8	0	8	0	8	0	8
SGT	9916		1	0	1	0	1	0	1	0	1	0	1
SGT	9956		4	0	4	0	4	0	4	0	4	0	4
SSGT	1341		1	0	1	0	1	0	1	0	1	0	1
SSGT	3043		1	0	1	0	1	0	1	0	1	0	1
SSGT	3529		1	0	1	0	1	0	1	0	1	0	1
SSGT	6042		8	0	8	0	8	0	8	0	8	0	8
SSGT	6044	6092	4	0	4	0	4	0	4	0	4	0	4
SSGT	6047		9	0	9	0	9	0	9	0	9	0	9
SSGT	6060		8	0	8	0	8	0	8	0	8	0	8
SSGT	6072		8	0	8	0	8	0	8	0	8	0	8
SSGT	6073		12	0	12	0	12	0	12	0	12	0	12
SSGT	6075		9	0	9	0	9	0	9	0	9	0	9
SSGT	6092		5	0	5	0	5	0	5	0	5	0	5
SSGT	6094		13	0	13	0	13	0	13	0	13	0	13
SSGT	6123	6135	1	0	1	0	1	0	1	0	1	0	1

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01		FY02		FY03		FY04		FY05	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
SSGT	6132		8	0	8	0	8	0	8	0	8	0	8
SSGT	6135		4	0	4	0	4	0	4	0	4	0	4
SSGT	6414		15	0	15	0	15	0	15	0	15	0	15
SSGT	6434		9	0	9	0	9	0	9	0	9	0	9
SSGT	6492		5	0	5	0	5	0	5	0	5	0	5
SSGT	6494		6	0	6	0	6	0	6	0	6	0	6
SSGT	6541		13	0	13	0	13	0	13	0	13	0	13
SSGT	6672		49	0	49	0	49	0	49	0	49	0	49
SSGT	6673		5	0	5	0	5	0	5	0	5	0	5
SSGT	8421		5	0	5	0	5	0	5	0	5	0	5
SSGT	8711		1	0	1	0	1	0	1	0	1	0	1
Staff Billets USMC and AR													
CPL	0151		1	0	1	0	1	0	1	0	1	0	1
CPL	6042		1	0	1	0	1	0	1	0	1	0	1
CPL	6113		6	0	6	0	6	0	6	0	6	0	6
CPL	6123	6135	2	0	2	0	2	0	2	0	2	0	2
CPL	6132		2	0	2	0	2	0	2	0	2	0	2
CPL	6173		16	0	16	0	16	0	16	0	16	0	16
CPL	6153		4	0	4	0	4	0	4	0	4	0	4
CPL	6323		3	0	3	0	3	0	3	0	3	0	3
CPL	6672		1	0	1	0	1	0	1	0	1	0	1
CPL	7041		1	0	1	0	1	0	1	0	1	0	1
CPL	4066		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6113		3	0	3	0	3	0	3	0	3	0	3
GYSGT	6123		1	0	1	0	1	0	1	0	1	0	1
GYSGT	6173		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6323		3	0	3	0	3	0	3	0	3	0	3
GYSGT	6414		1	0	1	0	1	0	1	0	1	0	1
LCPL	0121		2	0	2	0	2	0	2	0	2	0	2
LCPL	0151		1	0	1	0	1	0	1	0	1	0	1
LCPL	6042		1	0	1	0	1	0	1	0	1	0	1
LCPL	6173		10	0	10	0	10	0	10	0	10	0	10
LCPL	4066		1	0	1	0	1	0	1	0	1	0	1
MSGT	6119		1	0	1	0	1	0	1	0	1	0	1
SGT	6113		9	0	9	0	9	0	9	0	9	0	9
SGT	6153		5	0	5	0	5	0	5	0	5	0	5
SGT	6173		5	0	5	0	5	0	5	0	5	0	5
SGT	6323		3	0	3	0	3	0	3	0	3	0	3
SGT	6433		2	0	2	0	2	0	2	0	2	0	2
SGT	6672		1	0	1	0	1	0	1	0	1	0	1
SSGT	6047		1	0	1	0	1	0	1	0	1	0	1
SSGT	6113		1	0	1	0	1	0	1	0	1	0	1
SSGT	6123	6135	2	0	2	0	2	0	2	0	2	0	2
SSGT	6132		1	0	1	0	1	0	1	0	1	0	1

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY01		FY02		FY03		FY04		FY05	
				+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
SSGT	6153		3	0	3	0	3	0	3	0	3	0	3
SSGT	6173		2	0	2	0	2	0	2	0	2	0	2
SSGT	6323		4	0	4	0	4	0	4	0	4	0	4
SSGT	6434		2	0	2	0	2	0	2	0	2	0	2
SSGT	0193		1	0	1	0	1	0	1	0	1	0	1

Chargeable Student Billets USMC and AR

191	0	191	0	191	0	191	0	191	0	191	0	191
-----	---	-----	---	-----	---	-----	---	-----	---	-----	---	-----

SMCR Billets

CPL	6123	6135	2	0	2	0	2	0	2	0	2	0	2
CPL	6153		6	0	6	0	6	0	6	0	6	0	6
CPL	6173		1	0	1	0	1	0	1	0	1	0	1
CPL	6174		1	0	1	0	1	0	1	0	1	0	1
CPL	6323		8	0	8	0	8	0	8	0	8	0	8
CPL	6433		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6060		2	0	2	0	2	0	2	0	2	0	2
GYSGT	6153	9954	2	0	2	0	2	0	2	0	2	0	2
LCPL	0431		1	0	1	0	1	0	1	0	1	0	1
LCPL	6046		4	0	4	0	4	0	4	0	4	0	4
LCPL	6113		10	0	10	0	10	0	10	0	10	0	10
LCPL	6123		4	0	4	0	4	0	4	0	4	0	4
LCPL	6132		2	0	2	0	2	0	2	0	2	0	2
LCPL	6153		6	0	6	0	6	0	6	0	6	0	6
LCPL	6323		8	0	8	0	8	0	8	0	8	0	8
LCPL	6173		2	0	2	0	2	0	2	0	2	0	2
LCPL	6413		2	0	2	0	2	0	2	0	2	0	2
LCPL	6433		2	0	2	0	2	0	2	0	2	0	2
MGYSGT	9999		2	0	2	0	2	0	2	0	2	0	2
SGT	0231		2	0	2	0	2	0	2	0	2	0	2
SGT	6113		2	0	2	0	2	0	2	0	2	0	2
SGT	6173		2	0	2	0	2	0	2	0	2	0	2
SSGT	6414		2	0	2	0	2	0	2	0	2	0	2
SSGT	8421		1	0	1	0	1	0	1	0	1	0	1

TOTAL USMC ENLISTED BILLETS:

Operational			3006	0	3006	0	3006	0	3006	0	3006	0	3006
Fleet Support			1293	0	1293	0	1293	0	1293	0	1293	0	1293
Staff			106	0	106	0	106	0	106	0	106	0	106
Chargeable Student			191	0	191	0	191	0	191	0	191	0	191
SMCR			76	0	76	0	76	0	76	0	76	0	76

II.B. PERSONNEL REQUIREMENTS

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: MC-1, CH-53 Basic Pilot Training

COURSE LENGTH: 19.0 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.36

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT 302, MCAS New River												
	USMC	USMC	36		36		36		36		36	
		AR	0		0		0		0		0	
		SMCR	1		1		1		1		1	
		TOTAL:	37		37		37		37		37	

CIN, COURSE TITLE: MC-2, CH-53 Transition Pilot Training

COURSE LENGTH: 14.0 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.28

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT 302, MCAS New River												
	USMC	USMC	38		38		38		38		38	
		AR	0		0		0		0		0	
		SMCR	1		1		1		1		1	
		TOTAL:	39		39		39		39		39	

CIN, COURSE TITLE: MC-3, CH-53 Conversion Pilot Training

COURSE LENGTH: 10.0 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.21

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT 302, MCAS New River												
	USMC	USMC	10		10		10		10		10	
		AR	0		0		0		0		0	
		SMCR	0		1		0		1		0	
		TOTAL:	10		11		10		11		10	

CIN, COURSE TITLE: MC-4, CH-53 Refresher Pilot Training

COURSE LENGTH: 7.0 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.14

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT 302, MCAS New River												
	USMC	USMC	10		10		10		10		10	
		AR	0		0		0		0		0	
		SMCR	0		1		0		1		0	
		TOTAL:	10		11		10		11		10	

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: M-601-2722, CH-53E Crew Chief Training Syllabus

COURSE LENGTH: 23.8 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.48

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT 302 FREST, MCAS New River												
	USMC	USMC		85		85		85		85		85
		AR		1		1		1		1		1
		SMCR		0		1		0		1		0
		TOTAL:		86		87		87		87		86

CIN, COURSE TITLE: M-102-2731, CH-53E Communications/Electrical System Organizational Maintenance

COURSE LENGTH: 18.8 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.38

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT 302 FREST, MCAS New River												
	USMC	USMC		114		114		114		114		114
		SMCR		2		2		2		2		2
		TOTAL:		116		116		116		116		116

CIN, COURSE TITLE: M-601-2720, CH-53E Power Plants and Related Systems Maintenance

COURSE LENGTH: 12.4 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.25

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT 302 FREST, MCAS New River												
	USMC	USMC		128		128		128		128		128
		AR		2		2		2		2		2
		SMCR		1		1		1		1		1
		TOTAL:		131		131		131		131		131

CIN, COURSE TITLE: M-602-2781, Helicopter Airframe Mechanic CH-53

COURSE LENGTH: 14.4 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.29

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT 302 FREST, MCAS New River												
	USMC	USMC		106		106		106		106		106
		AR		1		1		1		1		1
		SMCR		1		1		1		1		1
		TOTAL:		108		108		108		108		108

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: M-646-2044, Rotary Wing (H-1, CH-46, CH-53)/OV-10 Armament Systems Maintenance

COURSE LENGTH: 9.4 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.19

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT 303 FREST, Camp Pendleton												
	USMC	USMC		21		21		21		21		21
		AR		1		1		1		1		1
		TOTAL:		22		22		22		22		22

CIN, COURSE TITLE: A-100-0073, Microminiature Electronics Repair

COURSE LENGTH: 2 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.00

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
FLETRACEN, NS Norfolk												
	USMC	USMC		4		4		4		4		4
		TOTAL:		4		4		4		4		4
FLETRACEN, NAS San Diego												
	USMC	USMC		3		3		3		3		3
		TOTAL:		3		3		3		3		3
Fleet Training Group, Pearl Harbor												
	USMC	USMC		1		1		1		1		1
		TOTAL:		1		1		1		1		1

CIN, COURSE TITLE: M-102-6412, Aircraft Communications Equipment Intermediate Maintenance

COURSE LENGTH: 12.0 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.24

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
VMAT 203 FREST, MCAS Cherry Point												
	USMC	USMC		2		2		2		2		2
		TOTAL:		2		2		2		2		2

CIN, COURSE TITLE: M-102-6413, Aircraft Navigation Systems Equipment Intermediate Maintenance

COURSE LENGTH: 9.2 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.19

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
VMAT 203 FREST, MCAS Cherry Point												
	USMC	USMC		13		13		13		13		13
		SMCR		0		1		0		0		0
		TOTAL:		13		14		13		13		13

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: M-102-6483, Helo Deceptive Electronic Countermeasures Intermediate Maintenance

COURSE LENGTH: 11.0 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.22

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
VMAT 203 FREST, MCAS Cherry Point												
	USMC	USMC		12		12		12		12		12
		TOTAL:		12		12		12		12		12

CIN, COURSE TITLE: M-601-3000, T-64 Engine First Degree Intermediate Maintenance

COURSE LENGTH: 6.2 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.13

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT 302 FREST, MCAS New River												
	USMC	USMC		22		22		22		22		22
		SMCR		1		1		1		1		1
		TOTAL:		23		23		23		23		23

CIN, COURSE TITLE: M-601-3090, Helicopter Dynamic Component Intermediate Maintenance

COURSE LENGTH: 4.2 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.08

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT 302 FREST, MCAS New River												
	USMC	USMC		22		22		22		22		22
		AR		1		1		1		1		1
		SMCR		0		1		0		0		0
		TOTAL:		23		24		23		23		23

CIN, COURSE TITLE: M-602-5812, CH-53D/E and CH-46 AFCS/Electrical Equipment Intermediate Maintenance

COURSE LENGTH: 11.4 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.23

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
HMT 302 FREST, MCAS New River												
	USMC	USMC		19		19		19		19		19
		SMCR		1		0		1		0		1
		TOTAL:		20		19		20		19		20

CIN, COURSE TITLE: D-602-7032, Support Equipment Electrical/Refrigeration Intermediate Maintenance

COURSE LENGTH: 15.2 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.30

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3032 NAMTRAU Jacksonville												
	USMC	USMC		22		22		22		22		22
		TOTAL:		22		22		22		22		22

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: E-602-7032, Support Equipment Electrical/Refrigeration Intermediate Maintenance

COURSE LENGTH: 15.2 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.30

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3033 NAMTRAU	North Island											
	USMC	USMC		13		13		13		13		13
		TOTAL:		13		13		13		13		13

CIN, COURSE TITLE: D-602-7040, Support Equipment Engine/Gas Turbine and Related Systems Intermediate Maintenance

COURSE LENGTH: 15.8 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.32

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3032 NAMTRAU	Jacksonville											
	USMC	USMC		30		30		30		30		30
		TOTAL:		30		30		30		30		30

CIN, COURSE TITLE: E-602-7040, Support Equipment Engine/Gas Turbine and Related Systems Intermediate Maintenance

COURSE LENGTH: 15.8 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.34

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3033 NAMTRAU	North Island											
	USMC	USMC		16		16		16		16		16
		TOTAL:		16		16		16		16		16

CIN, COURSE TITLE: C-603-3191, Aircraft Non-Destructive Inspection Technician Class C1

COURSE LENGTH: 14.8 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.30

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NATTC, NAS	Pensacola											
	USMC	USMC		7		7		7		7		7
		TOTAL:		7		7		7		7		7

CIN, COURSE TITLE: D-603-4007, Airframes Intermediate Maintenance

COURSE LENGTH: 4.2 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.09

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 1007 NAMTRAU	Oceana, NAS Oceana											
	USMC	USMC		5		5		5		5		5
		TOTAL:		5		5		5		5		5

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: E-603-4007, Airframes Intermediate Maintenance

COURSE LENGTH: 4.2 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.08

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 1038 NAMTRAU Lemoore												
	USMC	USMC		10		10		10		10		10
		TOTAL:		10		10		10		10		10

CIN, COURSE TITLE: M-646-7026, Aviation Ordnance Technician Intermediate Maintenance

COURSE LENGTH: 11.2 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.23

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3001 NAMTRAGRU DET Cherry Point, MCAS Cherry Point												
	USMC	USMC		25		25		25		25		25
		AR		0		0		0		0		0
		TOTAL:		25		25		25		25		25

CIN, COURSE TITLE: N-701-0007, Aircraft/Support Equipment Basic Welding Certification

COURSE LENGTH: 8.0 Weeks

ATTRITION FACTOR: USMC: 0%

BACKOUT FACTOR: 0.16

TRAINING ACTIVITY	SOURCE	ACDU/TAR SELRES	CFY01		FY02		FY03		FY04		FY05	
			OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
NAVAVNDEPOT Cherry Point, MCAS Cherry Point												
	USMC	USMC		2		2		2		2		2
NAVAVNDEPOT, North Island, NAS North Island												
	USMC	USMC		4		4		4		4		4
		TOTAL:		6		6		6		6		6

Note: Course N-701-0007 is also taught at NAVAVNDEPOT Jacksonville and NNSY. These activities are not utilized for Marine Corps training, and are therefore not listed.

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the CH-53D/E and, therefore, are not included in Part III of this NTSP:

III.A.1. Initial Training Requirements

III.A.2. Follow-on Training

III.A.2.b. Planned Courses

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out

III.A.2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: MC-1, CH-53 Basic Pilot Training
TRAINING ACTIVITY: HMT 302
LOCATION, UIC: MCAS New River, North Carolina, 55203

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
36		36		36		36		36		ATIR
36		36		36		36		36		Output
12.2		12.2		12.2		12.2		12.2		AOB
12.2		12.2		12.2		12.2		12.2		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
1		1		1		1		1		ATIR
1		1		1		1		1		Output
0.3		0.3		0.3		0.3		0.3		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

CIN, COURSE TITLE: MC-2, CH-53 Transition Pilot Training
TRAINING ACTIVITY: HMT 302
LOCATION, UIC: MCAS New River, North Carolina, 55203

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
38		38		38		38		38		ATIR
38		38		38		38		38		Output
9.9		9.9		9.9		9.9		9.9		AOB
9.9		9.9		9.9		9.9		9.9		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
1		1		1		1		1		ATIR
1		1		1		1		1		Output
0.3		0.3		0.3		0.3		0.3		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: MC-3, CH-53 Conversion Pilot Training
TRAINING ACTIVITY: HMT 302
LOCATION, UIC: MCAS New River, North Carolina, 55203

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
10		10		10		10		10		ATIR
10		10		10		10		10		Output
2.0		2.0		2.0		2.0		2.0		AOB
2.0		2.0		2.0		2.0		2.0		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		1		0		1		0		ATIR
0		1		0		1		0		Output
0.0		0.2		0.0		0.2		0.0		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

CIN, COURSE TITLE: MC-4, CH-53 Refresher Pilot Training
TRAINING ACTIVITY: HMT 302
LOCATION, UIC: MCAS New River, North Carolina, 55203

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
10		10		10		10		10		ATIR
10		10		10		10		10		Output
1.3		1.3		1.3		1.3		1.3		AOB
1.3		1.3		1.3		1.3		1.3		Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0		1		0		1		0		ATIR
0		1		0		1		0		Output
0.0		0.1		0.0		0.1		0.0		AOB
0.0		0.0		0.0		0.0		0.0		Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: M-601-2722, CH-53E Crew Chief Training Syllabus
TRAINING ACTIVITY: HMT 302 FREST
LOCATION, UIC: MCAS New River, North Carolina, 31493

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	86		86		86		86		86	ATIR
	86		86		86		86		86	Output
	38.9		38.9		38.9		38.9		38.9	AOB
	38.9		38.9		38.9		38.9		38.9	Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0		1		0		1		0	ATIR
	0		1		0		1		0	Output
	0.0		0.5		0.0		0.5		0.0	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

CIN, COURSE TITLE: M-102-2731, CH-53E Communications/Electrical System Organizational Maintenance
TRAINING ACTIVITY: HMT 302 FREST
LOCATION, UIC: MCAS New River, North Carolina, 31493

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	114		114		114		114		114	ATIR
	114		114		114		114		114	Output
	40.6		40.6		40.6		40.6		40.6	AOB
	40.6		40.6		40.6		40.6		40.6	Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	2		2		2		2		2	ATIR
	2		2		2		2		2	Output
	0.7		0.7		0.7		0.7		0.7	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: M-601-2720, CH-53E Power Plants and Related Systems Maintenance
TRAINING ACTIVITY: HMT 302 FREST
LOCATION, UIC: MCAS New River, North Carolina, 31493

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	130		130		130		130		130	ATIR
	130		130		130		130		130	Output
	30.7		30.7		30.7		30.7		30.7	AOB
	30.7		30.7		30.7		30.7		30.7	Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	1		1		1		1		1	ATIR
	1		1		1		1		1	Output
	0.2		0.2		0.2		0.2		0.2	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

CIN, COURSE TITLE: M-602-2781, Helicopter Airframe Mechanic CH-53
TRAINING ACTIVITY: HMT 302 FREST
LOCATION, UIC: MCAS New River, North Carolina, 31493

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	107		107		107		107		107	ATIR
	107		107		107		107		107	Output
	29.3		29.3		29.3		29.3		29.3	AOB
	29.3		29.3		29.3		29.3		29.3	Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	1		1		1		1		1	ATIR
	1		1		1		1		1	Output
	0.3		0.3		0.3		0.3		0.3	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: M-646-2044, Rotary Wing (H-1 CH-46 CH-53)/OV-10 Armament Systems Maintenance
TRAINING ACTIVITY: HMT 303 FREST
LOCATION, UIC: Camp Pendleton, California, 55176

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	22		22		22		22		22	ATIR
	22		22		22		22		22	Output
	3.9		3.9		3.9		3.9		3.9	AOB
	3.9		3.9		3.9		3.9		3.9	Chargeable

CIN, COURSE TITLE: A-100-0073, Microminiature Electronics Repair
TRAINING ACTIVITY: FLETRACEN Norfolk
LOCATION, UIC: NB Norfolk, Virginia, 30811

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	4		4		4		4		4	ATIR
	4		4		4		4		4	Output
	0.1		0.1		0.1		0.1		0.1	AOB
	0.1		0.1		0.1		0.1		0.1	Chargeable

CIN, COURSE TITLE: A-100-0073, Microminiature Electronics Repair
TRAINING ACTIVITY: FLETRACEN San Diego
LOCATION, UIC: NAS San Diego, California, 30808

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	3		3		3		3		3	ATIR
	3		3		3		3		3	Output
	0.1		0.1		0.1		0.1		0.1	AOB
	0.1		0.1		0.1		0.1		0.1	Chargeable

CIN, COURSE TITLE: A-100-0073, Microminiature Electronics Repair
TRAINING ACTIVITY: Fleet Training Group Pearl Harbor
LOCATION, UIC: Pearl Harbor, Hawaii, 44590

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	1		1		1		1		1	ATIR
	1		1		1		1		1	Output
	0.0		0.0		0.0		0.0		0.0	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: M-102-6412, Aircraft Communications Equipment Intermediate Maintenance
TRAINING ACTIVITY: VMAT 203 FREST
LOCATION, UIC: MCAS Cherry Point, North Carolina, 45483

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	2		2		2		2		2	ATIR
	2		2		2		2		2	Output
	0.4		0.4		0.4		0.4		0.4	AOB
	0.4		0.4		0.4		0.4		0.4	Chargeable

CIN, COURSE TITLE: M-102-6413, Aircraft Navigation Systems Equipment Intermediate Maintenance
TRAINING ACTIVITY: VMAT 203 FREST
LOCATION, UIC: MCAS Cherry Point, North Carolina, 45483

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	13		13		13		13		13	ATIR
	13		13		13		13		13	Output
	2.3		2.3		2.3		2.3		2.3	AOB
	2.3		2.3		2.3		2.3		2.3	Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0		1		0		0		0	ATIR
	0		1		0		0		0	Output
	0.0		0.2		0.0		0.0		0.0	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

CIN, COURSE TITLE: M-102-6483, Helo Deceptive Electronic Countermeasures Intermediate Maintenance
TRAINING ACTIVITY: VMAT 203 FREST
LOCATION, UIC: MCAS Cherry Point, North Carolina, 45483

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	12		12		12		12		12	ATIR
	12		12		12		12		12	Output
	2.5		2.5		2.5		2.5		2.5	AOB
	2.5		2.5		2.5		2.5		2.5	Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: M-601-3000, T-64 Engine First Degree Intermediate Maintenance
TRAINING ACTIVITY: HMT 302 FREST
LOCATION, UIC: MCAS New River, North Carolina, 31493

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	22		22		22		22		22	ATIR
	22		22		22		22		22	Output
	2.7		2.7		2.7		2.7		2.7	AOB
	2.7		2.7		2.7		2.7		2.7	Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	1		1		1		1		1	ATIR
	1		1		1		1		1	Output
	0.1		0.1		0.1		0.1		0.1	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

CIN, COURSE TITLE: M-601-3090, Helicopter Dynamic Component Intermediate Maintenance
TRAINING ACTIVITY: HMT 302 FREST
LOCATION, UIC: MCAS New River, North Carolina, 31493

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	23		23		23		23		23	ATIR
	23		23		23		23		23	Output
	1.8		1.8		1.8		1.8		1.8	AOB
	1.8		1.8		1.8		1.8		1.8	Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0		1		0		0		0	ATIR
	0		1		0		0		0	Output
	0.0		0.1		0.0		0.0		0.0	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: M-602-5812, CH-53D/E and CH-46 AFCS/Electrical Equipment Intermediate Maintenance
TRAINING ACTIVITY: HMT 302 FREST
LOCATION, UIC: MCAS New River, North Carolina, 31493

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	19		19		19		19		19	ATIR
	19		19		19		19		19	Output
	4.1		4.1		4.1		4.1		4.1	AOB
	4.1		4.1		4.1		4.1		4.1	Chargeable

SOURCE: USMC **STUDENT CATEGORY:** SMCR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	1		0		1		0		1	ATIR
	1		0		1		0		1	Output
	0.2		0.0		0.2		0.0		0.2	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

CIN, COURSE TITLE: D-602-7032, Support Equipment Electrical/Refrigeration Intermediate Maintenance
TRAINING ACTIVITY: MTU 3032 NAMTRAU Jacksonville
LOCATION, UIC: NAS Jacksonville, Florida, 39469

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	22		22		22		22		22	ATIR
	22		22		22		22		22	Output
	6.4		6.4		6.4		6.4		6.4	AOB
	6.4		6.4		6.4		6.4		6.4	Chargeable

CIN, COURSE TITLE: E-602-7032, Support Equipment Electrical/Refrigeration Intermediate Maintenance
TRAINING ACTIVITY: MTU 3033 NAMTRAU North Island
LOCATION, UIC: NAS North Island, California, 66065

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	13		13		13		13		13	ATIR
	13		13		13		13		13	Output
	3.8		3.8		3.8		3.8		3.8	AOB
	3.8		3.8		3.8		3.8		3.8	Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: D-602-7040, Support Equipment Engine/Gas Turbine and Related Systems Intermediate Maintenance
TRAINING ACTIVITY: MTU 3032 NAMTRAU Jacksonville
LOCATION, UIC: NAS Jacksonville, Florida, 39469

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	30		30		30		30		30	ATIR
	30		30		30		30		30	Output
	9.0		9.0		9.0		9.0		9.0	AOB
	9.0		9.0		9.0		9.0		9.0	Chargeable

CIN, COURSE TITLE: E-602-7040, Support Equipment Engine/Gas Turbine and Related Systems Intermediate Maintenance
TRAINING ACTIVITY: MTU 3033 NAMTRAU North Island
LOCATION, UIC: NAS North Island, California, 66065

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	16		16		16		16		16	ATIR
	16		16		16		16		16	Output
	5.3		5.3		5.3		5.3		5.3	AOB
	5.3		5.3		5.3		5.3		5.3	Chargeable

CIN, COURSE TITLE: C-603-3191, Aircraft Non-Destructive Inspection Technician Class C1
TRAINING ACTIVITY: NATTC Pensacola
LOCATION, UIC: NAS Pensacola, Florida, 39831

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	7		7		7		7		7	ATIR
	7		7		7		7		7	Output
	2.0		2.0		2.0		2.0		2.0	AOB
	2.0		2.0		2.0		2.0		2.0	Chargeable

CIN, COURSE TITLE: D-603-4007, Airframes Intermediate Maintenance
TRAINING ACTIVITY: MTU 1007 NAMTRAU Oceana
LOCATION, UIC: NAS Oceana, Virginia, 66045

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	5		5		5		5		5	ATIR
	5		5		5		5		5	Output
	0.4		0.4		0.4		0.4		0.4	AOB
	0.4		0.4		0.4		0.4		0.4	Chargeable

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: E-603-4007, Airframes Intermediate Maintenance
TRAINING ACTIVITY: MTU 1038 NAMTRAU Lemoore
LOCATION, UIC: NAS Lemoore, California, 39472

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	10		10		10		10		10	ATIR
	10		10		10		10		10	Output
	0.8		0.8		0.8		0.8		0.8	AOB
	0.8		0.8		0.8		0.8		0.8	Chargeable

CIN, COURSE TITLE: M-646-7026, Aviation Ordnance Technician Intermediate Maintenance
TRAINING ACTIVITY: MTU 3001 NAMTRAGRU DET Cherry Point
LOCATION, UIC: MCAS Cherry Point, North Carolina, 31511

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	25		25		25		25		25	ATIR
	25		25		25		25		25	Output
	5.4		5.4		5.4		5.4		5.4	AOB
	5.4		5.4		5.4		5.4		5.4	Chargeable

CIN, COURSE TITLE: N-701-0007, Aircraft/Support Equipment Basic Welding Certification
TRAINING ACTIVITY: NAVAVNDEPOT Cherry Point
LOCATION, UIC: MCAS Cherry Point, North Carolina, 65923

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	2		2		2		2		2	ATIR
	2		2		2		2		2	Output
	0.3		0.3		0.3		0.3		0.3	AOB
	0.3		0.3		0.3		0.3		0.3	Chargeable

CIN, COURSE TITLE: N-701-0007, Aircraft/Support Equipment Basic Welding Certification
TRAINING ACTIVITY: NAVAVNDEPOT North island
LOCATION, UIC: NAS North Island, California

SOURCE: USMC **STUDENT CATEGORY:** USMC - AR

CFY01		FY02		FY03		FY04		FY05		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	4		4		4		4		4	ATIR
	4		4		4		4		4	Output
	0.6		0.6		0.6		0.6		0.6	AOB
	0.6		0.6		0.6		0.6		0.6	Chargeable

Note: Course N-701-0007 is also taught at NAVAVNDEPOT Jacksonville and NNSY Portsmouth. These activities are not utilized for Marine Corps training and are therefore not listed.

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the CH-53D and CH-53E and, therefore, are not included in Part IV of this NTSP:

IV.B. Courseware Requirements

IV.B.1. Training Services

IV.C. Facility Requirements

IV.C.1. Facility Requirements Summary (Space/Support) by Activity

IV.C.2. Facility Requirements Detailed by Activity and Course

IV.C.3. Facility Project Summary by Program

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

IV.A. TRAINING HARDWARE

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-102-9945, CH-53A/D/E Communication/Navigation/Identification/Electronic Countermeasures Systems, as part of track M-102-2731

TRAINING ACTIVITY: HMT 302 FREST

LOCATION, UIC: MCAS New River, 31493

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
SPTE					
2	Tester, Cable	1	Oct 91	GFE	Onboard
3	Test Set, Transponder	1	Oct 91	GFE	Onboard
GPETE					
1	Multimeter, Digital	2	Oct 91	GFE	Onboard
SPETE					
4	Radar Beacon Test Set	1	Oct 91	GFE	Onboard
5	X Band Antenna Coupler	1	Oct 91	GFE	Onboard
6	Radio Test Set	1	Oct 91	GFE	Onboard
7	MA-1 Line Test Set	1	Oct 91	GFE	Onboard

CIN, COURSE TITLE: C-602-9441, CH-53E Electrical Systems Integrated Organizational Maintenance, as part of track M-102-2731

TRAINING ACTIVITY: HMT 302 FREST

LOCATION, UIC: MCAS New River, 31493

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
SPTE					
10	Fuel Qty Test Set	1	Oct 91	GFE	Onboard
11	Fuel Qty Test Set	1	Oct 91	GFE	Onboard
9	Load Applicator, HOO	1	Oct 91	GFE	Onboard
GPETE					
8	Multimeter	1	Oct 91	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-602-9451, CH-53E Dual Digital Automatic Flight Control System Integrated Organizational Maintenance, as part of track M-102-2731

TRAINING ACTIVITY: HMT 302 FREST

LOCATION, UIC: MCAS New River, 31493

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
12	Amplifier Assembly	1	Oct 91	GFE	Onboard
13	Controller, Autopilot	1	Oct 91	GFE	Onboard
14	Synchro, Automatic	1	Oct 91	GFE	Onboard
15	Synchro, Automatic Pitch	1	Oct 91	GFE	Onboard
16	Accelerometer, Elect	1	Oct 91	GFE	Onboard
17	Stick Trim Amplifier	1	Oct 91	GFE	Onboard
SPTE					
19	Test Set, Flight Control	1	Oct 91	GFE	Onboard
20	Air Data Test Set, Digital	1	Oct 91	GFE	Onboard
GPETE					
18	Multimeter, Digital	2	Oct 91	GFE	Onboard

CIN, COURSE TITLE: C-602-9456, CH-53E Helicopter Mechanic Organizational Maintenance, as part of track M-601-2720

TRAINING ACTIVITY: HMT 302 FREST

LOCATION, UIC: MCAS New River, 31493

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
21	Main Rotor Head	1	Sep 93	GFE	Onboard
22	Main Gear Box	1	Sep 93	GFE	Onboard
23	Quick Change Unit	1	Sep 93	GFE	Onboard
24	T64-GE-416 Engine	1	Sep 93	GFE	Onboard
25	Gearbox Assembly Nose Left Hand	1	Sep 93	GFE	Onboard
26	Gearshaft, Spur	1	Sep 93	GFE	Onboard
27	Housing, Torque Sensor Shaft	1	Sep 93	GFE	Onboard
28	Fuel Control	1	Sep 93	GFE	Onboard
29	DC Power Supply B/G	1	Sep 93	GFE	Onboard
30	Tail Drive Holding Fixture	1	Sep 93	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
31	CH-53E MRH and Swashplate	1	Sep 93	GFE	Onboard
32	Sling, Lifting Accessory Gearbox	1	Sep 93	GFE	Onboard
33	Sling, Aircraft Main	1	Sep 93	GFE	Onboard
34	Sling Assembly, Sleeve	1	Sep 93	GFE	Onboard
35	Wrench	1	Sep 93	GFE	Onboard
36	Remover, Pin Set Horizontal	1	Sep 93	GFE	Onboard
37	Wrench, Hinge Pin	1	Sep 93	GFE	Onboard
38	Thimble Assembly	1	Sep 93	GFE	Onboard
39	Hydraulic Test Stand	1	Sep 93	GFE	Onboard
40	Sling, Assembly Tail Rotor	1	Sep 93	GFE	Onboard
41	Wrench Assembly	1	Sep 93	GFE	Onboard
42	Puller, Pitch Beam	1	Sep 93	GFE	Onboard
43	Wrench Spanner	1	Sep 93	GFE	Onboard
44	Sling, Aircraft Main	1	Sep 93	GFE	Onboard
45	Fixture Assembly, Aluminum	1	Sep 93	GFE	Onboard
46	Rig Kit, Flight Control	1	Sep 93	GFE	Onboard
47	Sling Assembly, Rotor	1	Sep 93	GFE	Onboard
48	Adapter, Torque Wrench	1	Sep 93	GFE	Onboard
49	Stand, Rotor Blade	1	Sep 93	GFE	Onboard
50	Wrench, Special	1	Sep 93	GFE	Onboard
51	Sling, Aircraft Main	1	Sep 93	GFE	Onboard
52	Installing Tool Set	1	Sep 93	GFE	Onboard
53	Tensioner	1	Sep 93	GFE	Onboard
54	Adapter Assembly	1	Sep 93	GFE	Onboard
55	Protector, Shaft	1	Sep 93	GFE	Onboard
56	Shield, Protective Inlet	1	Sep 93	GFE	Onboard
57	Sling Assembly, Engine	1	Sep 93	GFE	Onboard
58	Engine Fuel Control	1	Sep 93	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
59	Rigging Assembly	2	Sep 93	GFE	Onboard
60	Tensiometer, Dial In	1	Sep 93	GFE	Onboard
61	Power Twin Ram	1	Sep 93	GFE	Onboard
62	Remover Set	1	Sep 93	GFE	Onboard
63	Wrench, 12 Point Box	1	Sep 93	GFE	Onboard
64	Wrench, Spanner	1	Sep 93	GFE	Onboard
65	Installer Bearing	1	Sep 93	GFE	Onboard
66	Rigging Assembly	1	Sep 93	GFE	Onboard
67	Rigging Assembly	1	Sep 93	GFE	Onboard
68	Shaft Protector	1	Sep 93	GFE	Onboard
69	Fixture, Alignment Tool	1	Sep 93	GFE	Onboard
70	Rigging Kit, Flight	1	Sep 93	GFE	Onboard
71	Sling, Aircraft Main	1	Sep 93	GFE	Onboard
72	Sling assembly, Main	1	Sep 93	GFE	Onboard
73	Protractor, Special	9	Sep 93	GFE	Onboard
74	Wrench, Spanner	1	Sep 93	GFE	Onboard
75	Sling, Aircraft Main	1	Sep 93	GFE	Onboard
76	Caliper, Micrometer	1	Sep 93	GFE	Onboard
77	Protector, Thread	1	Sep 93	GFE	Onboard
78	Bearing Puller	1	Sep 93	GFE	Onboard
79	Sleeve and Spindle Sling	1	Sep 93	GFE	Onboard
80	Installer Bearing	1	Sep 93	GFE	Onboard
81	Rotor Head Sling	1	Sep 93	GFE	Onboard
82	Wrench Assembly	1	Sep 93	GFE	Onboard
83	Torque Fixture	1	Sep 93	GFE	Onboard
84	Torque Fixture	1	Sep 93	GFE	Onboard
85	Slide Hammer	1	Sep 93	GFE	Onboard
86	Flight Control Rigging Kit	1	Sep 93	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
87	Shaft Protector	1	Sep 93	GFE	Onboard
88	Sleeve and Spindle Sling Assembly	1	Sep 93	GFE	Onboard
89	80 Degree Rigging Pin	1	Sep 93	GFE	Onboard
90	10 Degree Rigging Pin	1	Sep 93	GFE	Onboard
91	Alignment Auxiliary Fixture	1	Sep 93	GFE	Onboard
92	Shield Assembly	1	Sep 93	GFE	Onboard
93	Shield Assembly	1	Sep 93	GFE	Onboard
94	Sling Assembly	1	Sep 93	GFE	Onboard
95	Wrench	1	Sep 93	GFE	Onboard
96	Wrench Assembly	1	Sep 93	GFE	Onboard
97	Rigging Plate	1	Sep 93	GFE	Onboard
98	Engine Stand	1	Sep 93	GFE	Onboard
99	Separator Assembly	1	Sep 93	GFE	Onboard

CIN, COURSE TITLE: C-603-9444, CH-53E Airframes Integrated Organizational Maintenance, as part of track M-602-2781

TRAINING ACTIVITY: HMT 302 FREST

LOCATION, UIC: MCAS New River, 31493

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
100	Damper Assembly, CH-53E	1	Jan 94	GFE	Onboard
101	Damper Accumulator, CH-53E	1	Jan 94	GFE	Onboard
102	Main Rotor Servo, CH-53E	1	Jan 94	GFE	Onboard
103	Rotor Brake Main Fold, CH-53E	1	Jan 94	GFE	Onboard
104	Pitch Lock Assembly, CH-53E	1	Jan 94	GFE	Onboard
105	Blade Lock Assembly, CH-53E	1	Jan 94	GFE	Onboard
106	Rotary Coupling, CH-53E	1	Jan 94	GFE	Onboard
107	Engine Start Motor, CH-53E	1	Jan 94	GFE	Onboard
108	Engine Start Valve, CH-53E	1	Jan 94	GFE	Onboard
109	First Stage Return Manifold	1	Jan 94	GFE	Onboard
110	Slip-Ring CH-53E	1	Jan 94	GFE	Onboard

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
111	Reservoir, Utility, CH-53D	1	Jan 94	GFE	Onboard
112	Pitch Lock, CH-53D	1	Jan 94	GFE	Onboard
113	Bladefold Manifold, CH-53D	1	Jan 94	GFE	Onboard
114	First Stage Pump, CH-53D	1	Jan 94	GFE	Onboard
115	Main Rotor Servo, CH-53D	1	Jan 94	GFE	Onboard
116	Tail Rotor Servo, CH-53D	1	Jan 94	GFE	Onboard
117	Engine Cowling, CH-53E	4	Jan 94	GFE	Onboard
118	Nose Gear Box, CH-53E	4	Jan 94	GFE	Onboard

CIN, COURSE TITLE: C-646-9361, H-1 Armament Repair Integrated Organizational Maintenance, as part of track M-646-2044
TRAINING ACTIVITY: HMT 303 FREST
LOCATION, UIC: Camp Pendleton, 55176

ITEM NO.	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQD	DATE REQD	GFE CFE	STATUS
TTE					
119	Gun Assembly, Machine; Aircraft 7.62 MM	2	Oct 93	GFE	Onboard
120	Feeder, M-89	1	Oct 93	GFE	Onboard
121	M197 Automatic Gun	2	Oct 93	GFE	Onboard
122	Fixture, Feed Unit	1	Oct 93	GFE	Onboard
123	Guided Missile, Training	2	Oct 93	GFE	Onboard
124	GAU-2B/A Adapter Assembly	1	Oct 93	GFE	Onboard
125	Gauge Assembly, Guide Bar	1	Oct 93	GFE	Onboard
126	Launcher, XM-85 (TOW)	2	Oct 93	GFE	Onboard
127	Aircraft Machine Gun, 7.62 MM-60D	2	Oct 93	GFE	Onboard
128	M-89E-1 Delinking Feeder	1	Oct 93	GFE	Onboard
129	Guided Missile, Training ATM-9L	1	Oct 93	GFE	Onboard
130	Programmer	2	Oct 93	GFE	Onboard
131	Launcher, LAU-7	1	Oct 93	GFE	Onboard

IV.A.2. TRAINING DEVICES

DEVICE: CH-53D Operational Flight Trainer (OFT) Device 2F121
DESCRIPTION: The CH-53D OFT provides for increased pilot proficiency training by simulation of the following operations: normal/emergency procedures (air, land, and shipboard), preflight, startup, takeoff, maneuvers, instrument flight, loading operations, landing, shutdown, and postflight.
MANUFACTURER: Sperry Rand Corporation (Now Unisys Corporation)
CONTRACT NUMBER: N61339-79-0079
TEE STATUS: NA

TRAINING ACTIVITY: HMT 301
LOCATION, UIC: MCB Kaneohe, Hawaii, 31967

QTY	DATE	RFT		COURSES
REQD	REQD	DATE	STATUS	SUPPORTED
1	Oct 87	Oct 87	Onboard	MC-1 MC-2 MC-3 MC-4

Note: This trainer is used to provide pilot proficiency training.

DEVICE: Aircrew Procedures Trainer (APT), 2F171
DESCRIPTION: The CH-53E APT provides the capability for procedure and proficiency training of pilots and copilots under both normal and emergency conditions in the operation, navigation, and communications of the CH-53E Helicopter in fulfillment of their designated missions. This device only provides training in a stationary environment.
MANUFACTURER: NAWCAD
CONTRACT NUMBER: N0001999WXBS92A
TEE STATUS: NA

TRAINING ACTIVITY: MAG-36
LOCATION, UIC: MCAS Futenma, Japan, 57079

QTY	DATE	RFT		COURSES
REQD	REQD	DATE	STATUS	SUPPORTED
1	FY01	FY01	Pending	MC-1 MC-2 MC-3 MC-4 M-601-2722

Note: This trainer is used to provide aircrew proficiency training.

DEVICE: CH-53E Weapons System Trainer (WST) 2F174
DESCRIPTION: The CH-53E WST is used to train crewmembers in all modes of the operational aircraft's mission. The device simulates the response of the CH-53E controls, instruments, and systems, to include the aural, motion, and force-feel sensations. The device provides the capability for procedure and proficiency training of pilots and copilots under both normal and emergency conditions in the operation, navigation, and communications of the CH-53E helicopter in fulfillment of their designated missions.
MANUFACTURER: Sperry Rand Corporation (Now Unisys Corporation)
CONTRACT NUMBER: N61339-79-C-0079
TEE STATUS: NA

IV.A.2. TRAINING DEVICES

TRAINING ACTIVITY: HMT 302
LOCATION, UIC: MCAS New River, 31493

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	May 94	May 94	Onboard	MC-1 MC-2 MC-3 MC-4 M-601-2722

TRAINING ACTIVITY: COMCABWEST
LOCATION, UIC: MCAS Miramar, California, 46623

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jul 98	Jul 98	Onboard	MC-1 MC-2 MC-3 MC-4 M-601-2722

Note: This trainer is used to provide aircrew proficiency training.

DEVICE: CH-53D Practical Job Trainer
DESCRIPTION: The CH-53D Practical Job Trainer provides practical training for the power plant, power train, flight control, hydraulic, and miscellaneous systems.
MANUFACTURER: Sikorsky Aircraft Corporation
CONTRACT NUMBER: Not Available
TEE STATUS: NA

TRAINING ACTIVITY: HMT 302 FREST
LOCATION, UIC: MCAS New River, 31493

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jan 94	Jan 94	Onboard	C-602-9456, as part of track M-601-2720 C-603-9444, as part of track M-602-2781

DEVICE: CH-53E Composite Maintenance Trainer 980531-1002-01
DESCRIPTION: The CH-53E Composite Maintenance Trainer provides practical training for the power plant, power train, flight control, hydraulic, and miscellaneous systems.
MANUFACTURER: Sikorsky Aircraft Corporation
CONTRACT NUMBER: N0600-91-D-0419
TEE STATUS: NA

TRAINING ACTIVITY: HMT 302 FREST
LOCATION, UIC: MCAS New River, 31493

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Oct 91	Oct 91	Onboard	C-602-9441, as part of track M-102-2731 C-602-9456, as part of track M-601-2720

IV.A.2. TRAINING DEVICES

DEVICE: CH-53D AFCS Maintenance Trainer 985031-5703-01
DESCRIPTION: The CH-53D AFCS Maintenance Trainer is utilized to simulate the AFCS system and allow the maintenance technicians to learn proper troubleshooting procedures, component location, installation, removal, and system operation.
MANUFACTURER: Sikorsky Aircraft Corporation
CONTRACT NUMBER: N00019-68-C-014
TEE STATUS: NA

TRAINING ACTIVITY: HMT 302 FREST
LOCATION, UIC: MCAS New River, 31493

QTY	DATE	RFT		COURSES
REQD	REQD	DATE	STATUS	SUPPORTED
1	Mar 86	Mar 86	Onboard	C-602-9451, as part of track M-102-2731

DEVICE: CH-53E AFCS Maintenance Trainer 985031-5707-01
DESCRIPTION: The CH-53E AFCS Maintenance Trainer is utilized to simulate the AFCS system and allow the maintenance technicians to learn proper troubleshooting procedures, component location, installation, removal, and system operation.
MANUFACTURER: Sikorsky Aircraft Corporation
CONTRACT NUMBER: N00019-68-C-014
TEE STATUS: NA

TRAINING ACTIVITY: HMT 302 FREST
LOCATION, UIC: MCAS New River, 31493

QTY	DATE	RFT		COURSES
REQD	REQD	DATE	STATUS	SUPPORTED
1	Mar 86	Mar 86	Onboard	C-602-9451, as part of track M-102-2731

DEVICE: CH-53E Fuel System Trainer 980531-4603-01
DESCRIPTION: The CH-53E Fuel System Trainer Set provides Power Plant and Electrical Technicians with training on the operation and maintenance requirements of the CH-53E fuel system.
MANUFACTURER: Sikorsky Aircraft Corporation
CONTRACT NUMBER: N00019-78-014
TEE STATUS: NA

TRAINING ACTIVITY: HMT 302 FREST
LOCATION, UIC: MCAS New River, 31493

QTY	DATE	RFT		COURSES
REQD	REQD	DATE	STATUS	SUPPORTED
1	Jun 97	Jun 97	Onboard	C-602-9441, as part of track M-102-2731 C-602-9456, as part of track M-601-2720

DEVICE: CH-53A/D Landing Gear and Ramp Maintenance Trainer 980531-1301-01
DESCRIPTION: The CH-53A/D Landing Gear and Ramp Trainer is utilized for landing gear, wheel brake, tail skid, and cargo ramp, and door systems maintenance training.
MANUFACTURER: Sikorsky Aircraft Corporation
CONTRACT NUMBER: N00019-68-C-0471
TEE STATUS: NA

TRAINING ACTIVITY: HMT 302 FREST

IV.A.2. TRAINING DEVICES

LOCATION, UIC: MCAS New River, 31493

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jun 82	Jun 82	Onboard	C-602-9441, as part of track M-102-2731 C-602-9444. as part of track M-602-2781

DEVICE: Auxiliary Power Plant Trainer 980531-2401-01
DESCRIPTION: The CH-53E Auxiliary Power Plant Trainer provides the equipment necessary for training technicians to maintain the CH-53E auxiliary power plant.

MANUFACTURER: Sikorsky Aircraft Corporation

CONTRACT NUMBER: N00019-68-C-047

TEE STATUS: NA

TRAINING ACTIVITY: HMT 302 FREST
LOCATION, UIC: MCAS New River, 31493

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Sep 82	Sep 82	Onboard	C-602-9456, as part of track M-601-2720

DEVICE: Rotor Head Trainer 980531-1502-01
DESCRIPTION: The Rotor Head Trainer is used to provide hands on training to Power Plants and Airframe Technicians for the removal, replacement, and alignment of components on the Rotor Head.

MANUFACTURER: Sikorsky Aircraft Corporation

CONTRACT NUMBER: N00019-78-C-041

TEE STATUS: NA

TRAINING ACTIVITY: HMT 302 FREST
LOCATION, UIC: MCAS New River, 31493

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Jan 94	Jan 94	Onboard	C-602-9456, as part of track M-601-2720 C-603-9444, as part of track M-602-2781

DEVICE: Communication, Navigation, and Identification Systems Trainer 980531-7103-01
DESCRIPTION: The CH-53E Communication, Navigation, and Identification Systems Trainer provides Avionics Technicians training on the avionics systems used in the CH-53E helicopter including system testing, troubleshooting, component removal, and replacement.

MANUFACTURER: EER Systems

CONTRACT NUMBER: Not Available

TEE STATUS: NA

TRAINING ACTIVITY: HMT 302 FREST
LOCATION, UIC: MCAS New River, 31493

QTY REQD	DATE REQD	RFT DATE	STATUS	COURSES SUPPORTED
1	Sep 96	Sep 96	Onboard	C-602-9441, as part of track M-102-2731

DEVICE: CH-53A/D Electrical Systems Trainer 980531-4202-01

IV.A.2. TRAINING DEVICES

DESCRIPTION: The CH-53E Electrical Systems Trainer provides Avionics Technicians training on the electrical systems of the helicopter including system testing, troubleshooting, component removal, and replacement.

MANUFACTURER: Sikorsky Aircraft Corporation

CONTRACT NUMBER: N00019-68-C-047

TEE STATUS: NA

TRAINING ACTIVITY: HMT 302 FREST

LOCATION, UIC: MCAS New River, 31493

QTY	DATE	RFT		COURSES
REQD	REQD	DATE	STATUS	SUPPORTED
1	Sep 85	Sep 85	Onboard	C-602-9441, as part of track M-102-2731

DEVICE: CH-53A/D Hydraulic Systems Trainer 980531-4501-01

DESCRIPTION: The CH-53A/D Hydraulic Systems Trainer provides practical training on the hydraulic systems operation, troubleshooting, testing, and removal, and replacement of components.

MANUFACTURER: Sikorsky Aircraft Corporation

CONTRACT NUMBER: Not Available

TEE STATUS: NA

TRAINING ACTIVITY: HMT 302 FREST

LOCATION, UIC: MCAS New River, 31493

QTY	DATE	RFT		COURSES
REQD	REQD	DATE	STATUS	SUPPORTED
1	Dec 86	Dec 86	Onboard	C-603-9444, as part of track M-602-2781

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: MC-1, CH-53 Basic Pilot Training
TRAINING ACTIVITY: HMT 302
LOCATION, UIC: MCAS New River, 55203

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Instructor Guides	3	Oct 87	Onboard
Student Guides	40	Oct 87	Onboard
Student Tests	40	Oct 87	Onboard

CIN, COURSE TITLE: MC-2, CH-53 Transition Pilot Training
TRAINING ACTIVITY: HMT 302
LOCATION, UIC: MCAS New River, 55203

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Instructor Guides	3	Oct 87	Onboard
Student Guides	40	Oct 87	Onboard
Student Tests	40	Oct 87	Onboard

CIN, COURSE TITLE: MC-3, CH-53 Conversion Pilot Training
TRAINING ACTIVITY: HMT 302
LOCATION, UIC: MCAS New River, 55203

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Instructor Guides	3	Oct 87	Onboard
Student Guides	15	Oct 87	Onboard
Student Tests	15	Oct 87	Onboard

CIN, COURSE TITLE: MC-4, CH-53 Refresher Pilot Training
TRAINING ACTIVITY: HMT 302
LOCATION, UIC: MCAS New River, 55203

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Instructor Guides	3	Oct 87	Onboard
Student Guides	15	Oct 87	Onboard
Student Tests	15	Oct 87	Onboard

CIN, COURSE TITLE: M-601-2722, CH-53E Crew Chief Training Syllabus
TRAINING ACTIVITY: HMT 302
LOCATION, UIC: MCAS New River, 31493

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Instructor Guides	3	Jul 90	Onboard
Student Guides	100	Sep 90	Onboard
Student Tests	90	Jul 90	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-102-9945, CH-53A/D/E Communication/Navigation/Identification/Electronic Countermeasures Systems Organizational Maintenance, as part of track M-102-2731

TRAINING ACTIVITY: HMT 302 FREST

LOCATION, UIC: MCAS New River, 31493

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guides	3	Oct 91	Onboard
Student Guides	120	Oct 91	Onboard
Student Tests	120	Oct 91	Onboard
Transparencies	137	Oct 91	Onboard
Wall Charts	6	Oct 91	Onboard

CIN, COURSE TITLE: C-602-9441, CH-53E Electrical Systems Integrated Organizational Maintenance, as part of track M-102-2731

TRAINING ACTIVITY: HMT 302 FREST

LOCATION, UIC: MCAS New River, 31493

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guides	3	Oct 91	Onboard
Slides	483	Oct 91	Onboard
Student Guides	120	Oct 91	Onboard
Student Tests	120	Oct 91	Onboard
Transparencies	170	Oct 91	Onboard
Wall Charts	34	Oct 91	Onboard

CIN, COURSE TITLE: C-602-9451, CH-53E Dual Digital Automatic Flight Control System Integrated Organizational Maintenance, as part of track M-102-2731

TRAINING ACTIVITY: HMT 302 FREST

LOCATION, UIC: MCAS New River, 31493

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guides	3	Oct 91	Onboard
Slides	147	Oct 91	Onboard
Student Guides	120	Oct 91	Onboard
Student Tests	120	Oct 91	Onboard
Transparencies	40	Oct 91	Onboard
Wall Charts	15	Oct 91	Onboard

CIN, COURSE TITLE: C-602-9456, CH-53E Helicopter Mechanic Organizational Maintenance, as part of track M-601-2720

TRAINING ACTIVITY: HMT 302 FREST

LOCATION, UIC: MCAS New River, 31493

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guides	3	Sep 93	Onboard
Student Guides	140	Sep 93	Onboard
Student Tests	140	Sep 93	Onboard
Transparencies	295	Sep 93	Onboard
Wall Charts	18	Sep 93	Onboard

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-603-9444, CH-53E Airframes Integrated Organizational Maintenance, as part of track M-602-2781

TRAINING ACTIVITY: HMT 302 FREST

LOCATION, UIC: MCAS New River, 31493

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guides	3	Jan 94	Onboard
Slides	680	Jan 94	Onboard
Student Guides	120	Jan 94	Onboard
TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Student Tests	120	Jan 94	Onboard
Transparencies	253	Jan 94	Onboard
Wall Charts	10	Jan 94	Onboard

CIN, COURSE TITLE: C-646-9361, H-1 Armament Repair Integrated Organizational Maintenance, as part of track M-646-2044

TRAINING ACTIVITY: HMT 303 FREST

LOCATION, UIC: Camp Pendleton, 55176

TYPES OF MATERIAL OR AID	QTY	DATE	STATUS
	REQD	REQD	
Instructor Guides	3	Oct 93	Onboard
Student Guides	30	Oct 93	Onboard
Student Tests	30	Oct 93	Onboard
Transparencies	25	Oct 93	Onboard

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: MC-1, CH-53 Basic Pilot Training
TRAINING ACTIVITY: HMT 302
LOCATION, UIC: MCAS New River, 55203

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-H53BE-NFM-000 NATOPS Flight Manual, CH-53E Helicopter	Hard copy	14	Jun 99	Onboard
A1-H53BE-NFM-500 NATOPS Pilots Pocket Checklist, CH-53E Helicopter	Hard copy	14	Jun 99	Onboard

CIN, COURSE TITLE: MC-2, CH-53 Transition Pilot Training
TRAINING ACTIVITY: HMT 302
LOCATION, UIC: MCAS New River, 55203

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-H53BE-NFM-000 NATOPS Flight Manual, CH-53E Helicopter	Hard copy	12	Jun 99	Onboard
A1-H53BE-NFM-500 NATOPS Pilots Pocket Checklist, CH-53E Helicopter	Hard copy	12	Jun 99	Onboard

CIN, COURSE TITLE: MC-3, CH-53 Conversion Pilot Training
TRAINING ACTIVITY: HMT 302
LOCATION, UIC: MCAS New River, 55203

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-H53BE-NFM-000 NATOPS Flight Manual, CH-53E Helicopter	Hard copy	3	Jun 99	Onboard
A1-H53BE-NFM-500 NATOPS Pilots Pocket Checklist, CH-53E Helicopter	Hard copy	3	Jun 99	Onboard

CIN, COURSE TITLE: MC-4, CH-53 Refresher Pilot Training
TRAINING ACTIVITY: HMT 302
LOCATION, UIC: MCAS New River, 55203

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-H53BE-NFM-000 NATOPS Flight Manual, CH-53E Helicopter	Hard copy	3	Jun 99	Onboard
A1-H53BE-NFM-500 NATOPS Pilots Pocket Checklist, CH-53E Helicopter	Hard copy	3	Jun 99	Onboard

IV.B.3. TECHNICAL MANUALS

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
CIN, COURSE TITLE: M-601-2722, CH-53E Crew Chief Training Syllabus TRAINING ACTIVITY: HMT 302 LOCATION, UIC: MCAS New River, 55203				
A1-H53CE-MRC-100 CH-53E/MH-53E Turnaround Checklist, Organizational Maintenance Instructions	Hard copy	40	Jun 99	Onboard
A1-H53BE-NFM-000 NATOPS Flight Manual, CH-53E Helicopter	Hard copy	40	Jun 99	Onboard
A1-H53BE-NFM-900 NATOPS Aircrew Pocket Checklist, CH-53E Helicopter	Hard copy	40	Jun 99	Onboard
NAVAIR 00-08T-113 U.S. Navy Aircraft Handling Signals, Technical Manual	Hard copy	40	Jun 99	Onboard
CIN, COURSE TITLE: C-102-9945, CH-53A/D/E Communication/Navigation/Identification/Electronic Countermeasures Systems Organizational Maintenance, as part of track M-102-2731 TRAINING ACTIVITY: HMT 302 FREST LOCATION, UIC: MCAS New River, 31493				
TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-53CE-760-000 Countermeasures Systems	Hard copy	40	Oct 91	Onboard
A1-H53AD-600-000 Communication Systems	Hard copy	40	Oct 91	Onboard
A1-H53AD-700-000 Navigation Systems	Hard copy	40	Oct 91	Onboard
A1-H53AD-POM-200 Principals of Operation Manual	Hard copy	40	Oct 91	Onboard
A1-H53AD-TTM-210 Testing and Troubleshooting Manual-Volume II	Hard copy	40	Oct 91	Onboard
A1-H53CE-570-000 Automatic Flight Control Systems (MPM)	Hard copy	40	Oct 91	Onboard
A1-H53CE-570-100 Automatic Flight Control Systems (POM)	Hard copy	40	Oct 91	Onboard
A1-H53CE-570-200 Automatic Flight Control Systems (TTM)	Hard copy	40	Oct 91	Onboard
A1-H53CE-570-400 Automatic Flight Control Systems (IPB)	Hard copy	40	Oct 91	Onboard
A1-H53CE-600-000 Communication Systems (MPM)	Hard copy	40	Oct 91	Onboard

IV.B.3. TECHNICAL MANUALS

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-H53CE-600-100 Communication Systems (POM)	Hard copy	40	Oct 91	Onboard
A1-H53CE-600-200 Communication Systems (TTM)	Hard copy	40	Oct 91	Onboard
A1-H53CE-600-400 Communication Systems (IPB)	Hard copy	40	Oct 91	Onboard
A1-H53CE-700-000 Navigation Systems (MPM)	Hard copy	40	Oct 91	Onboard
A1-H53CE-700-100 Navigation Systems (POM)	Hard copy	40	Oct 91	Onboard
A1-H53CE-700-200 Navigation Systems (TTM)	Hard copy	40	Oct 91	Onboard
A1-H53CE-700-400 Navigation Systems (IPB)	Hard copy	40	Oct 91	Onboard
A1-H53CE-760-100 Countermeasures Systems (POM)	Hard copy	40	Oct 91	Onboard
A1-H53CE-760-200 Countermeasures Systems (TTM)	Hard copy	40	Oct 91	Onboard
A1-H53CE-760-400 Countermeasures Systems (IPB)	Hard copy	40	Oct 91	Onboard
A1-H53AD-TTM-200 Testing and Troubleshooting Manual-Volume II	Hard copy	40	Oct 91	Onboard

CIN, COURSE TITLE: C-602-9441, CH-53E Electrical Systems Integrated Organizational Maintenance, as part of track M-102-2731
TRAINING ACTIVITY: HMT 302 FREST
LOCATION, UIC: MCAS New River, 31493

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-H53CE-220-000 Propulsion Systems Organizational Maintenance	Hard copy	40	Oct 91	Onboard
A1-H53CE-460-000 Fuel Systems Organizational Maintenance	Hard copy	40	Oct 91	Onboard
A1-H53CE-AML-000 Technical Manual	Hard copy	40	Oct 91	Onboard
A1-H53CE-GAI-000 General Aircraft Information Manual Organizational Maintenance	Hard copy	40	Oct 91	Onboard

IV.B.3. TECHNICAL MANUALS

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-H53CE-IPB-450 Numerical Index and Reference Designation Index Organizational Maintenance	Hard copy	40	Oct 91	Onboard
A1-H53AD-POM-100 Principles of Operation Volume I Airframe	Hard copy	40	Oct 91	Onboard
A1-H53AD-POM-200 Principles of Operation Volume II Non Airframe	Hard copy	40	Oct 91	Onboard
A1-H53AD-TTM-100 Testing and Troubleshooting Procedures Manual Volume I Airframe Organizational Maintenance	Hard copy	40	Oct 91	Onboard
A1-H53AD-TTM-200 Testing and Troubleshooting Procedures Manual Volume II Non Airframe Organizational Maintenance	Hard copy	40	Oct 91	Onboard

CIN, COURSE TITLE: C-602-9451, CH-53E Dual Digital Automatic Flight Control System Integrated Organizational Maintenance, as part of track M-102-2731

TRAINING ACTIVITY: HMT 302 FREST

LOCATION, UIC: MCAS New River, 31493

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-H53CE-570-000 Flight Control Systems (Auto) Organizational Maintenance	Hard copy	40	Oct 91	Onboard
A1-H53BE-NFM-000 NATOPS Flight Manual	Hard copy	40	Oct 91	Onboard
A1-H53AD-POM-200 Principles of Operation Volume II Non Airframe	Hard copy	40	Oct 91	Onboard
A1-H53AD-TTM-200 Testing and Troubleshooting Procedures Manual Volume II Non Airframe Organizational Maintenance	Hard copy	40	Oct 91	Onboard

CIN, COURSE TITLE: C-602-9456, CH-53E Helicopter Mechanic Organizational Maintenance, as part of track M-601-2720

TRAINING ACTIVITY: HMT 302 FREST

LOCATION, UIC: MCAS New River, 31493

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
01-230HM-8 Work Unit Code Manual (H-53 Aircraft)	Hard copy	30	Sep 93	Onboard
01-230HMA-6-3 Special/Conditional/Preservation/ASPA Maintenance Requirements Cards	Hard copy	30	Sep 93	Onboard
02B-105AJB-4 T64 Turboshift Engine IPB	Hard copy	30	Sep 93	Onboard

IV.B.3. TECHNICAL MANUALS

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-H53AD-140-000 Flight Control Systems Manual with IPB	Hard copy	30	Sep 93	Onboard
A1-H53AD-150-000 Rotor systems Manual with IPB	Hard copy	30	Sep 93	Onboard
A1-H53AD-260-000 Transmission Systems Manual with IPB	Hard copy	30	Sep 93	Onboard
A1-H53AD-460-000 Fuel Systems Manual with IPB	Hard copy	30	Sep 93	Onboard
A1-H53AD-GAI-000 General Aircraft Information	Hard copy	30	Sep 93	Onboard
A1-H53AD-IPB-450 Organizational and Intermediate Illustrated Parts Breakdown	Hard copy	30	Sep 93	Onboard
A1-H53CE-MRC-000 Periodic Maintenance Information Cards	Hard copy	30	Sep 93	Onboard
A1-H53CE-MRC-100 Turnaround Checklist	Hard copy	30	Sep 93	Onboard
A1-H53CE-MRC-300 Special/Conditional/Preservation/ASPA Maintenance Requirement Cards	Hard copy	30	Sep 93	Onboard
A1-H53CE-110-000 Airframe Systems Maintenance	Hard copy	30	Sep 93	Onboard
A1-H53CE-140-000 Flight Control systems Maintenance	Hard copy	30	Sep 93	Onboard
A1-H53CE-140-100 Flight Control Systems POM	Hard copy	30	Sep 93	Onboard
A1-H53CE-140-400 Flight Control Systems IPB	Hard copy	30	Sep 93	Onboard
A1-H53CE-150-000 Rotor Systems Maintenance	Hard copy	30	Sep 93	Onboard
A1-H53CE-150-100 Rotor Systems POM	Hard copy	30	Sep 93	Onboard
A1-H53CE-150-400 Rotor Systems IPB	Hard copy	30	Sep 93	Onboard
A1-H53CE-220-000 Propulsion Systems Maintenance	Hard copy	30	Sep 93	Onboard
A1-H53CE-220-100 Propulsions POM	Hard copy	30	Sep 93	Onboard

IV.B.3. TECHNICAL MANUALS

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-H53CE-220-400 Propulsion Systems IPB	Hard copy	30	Sep 93	Onboard
A1-H53CE-260-000 Transmission Systems Maintenance	Hard copy	30	Sep 93	Onboard
A1-H53CE-260-100 Transmission Systems POM	Hard copy	30	Sep 93	Onboard
A1-H53CE-260-400 Transmission Systems IPB	Hard copy	30	Sep 93	Onboard
A1-H53CE-460-000 Fuel Systems Maintenance	Hard copy	30	Sep 93	Onboard
A1-H53CE-460-100 Fuel systems Volume II POM	Hard copy	30	Sep 93	Onboard
A1-H53CE-460-100 Fuel systems Volume I POM	Hard copy	30	Sep 93	Onboard
A1-H53CE-460-400 Fuel Systems IPB	Hard copy	30	Sep 93	Onboard
A1-H53CE-GAI-000 General Aircraft Information Manual	Hard copy	30	Sep 93	Onboard
A1-H53CE-IPB-450 Numerical Index and Reference Designation Index	Hard copy	30	Sep 93	Onboard
OPNAVINST 4790.2 Naval Aviation Maintenance Program	Hard copy	30	Sep 93	Onboard
CIN, COURSE TITLE: C-603-9444, CH-53E Airframes Integrated Organizational Maintenance, as part of track M-602-2781				
TRAINING ACTIVITY: HMT 302 FREST				
LOCATION, UIC: MCAS New River, 31493				
A1-H53-CE-450-000 Hydraulic Systems Organizational Maintenance	Hard copy	30	Jan 94	Onboard
A1-H53AD-110-000 Airframe Maintenance with IPB	Hard copy	30	Jan 94	Onboard
A1-H53AD-140-000 Flight Control Systems (Manual) with IPB	Hard copy	30	Jan 94	Onboard
A1-H53AD-150-000 Rotor Systems with IPB	Hard copy	30	Jan 94	Onboard
A1-H53AD-260-000 Transmission Systems with IPB	Hard copy	30	Jan 94	Onboard
A1-H53AD-450-000 Hydraulic Systems with IPB	Hard copy	30	Jan 94	Onboard

IV.B.3. TECHNICAL MANUALS

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-H53AD-GAI-000 General Information Manual	Hard copy	30	Jan 94	Onboard
A1-H53AD-POM-100 Principles of Operation, Volume I-Airframe	Hard copy	30	Jan 94	Onboard
A1-H53AD-SRM-100 Structural Repair Manual, CH53A/D Organizational and Intermediate Maintenance	Hard copy	30	Jan 94	Onboard
A1-H53AD-TTM-100 Testing and Troubleshooting Manual, Volume I Airframe	Hard copy	30	Jan 94	Onboard
A1-H53AD-TTM-120 Testing and Troubleshooting Manual, Volume III	Hard copy	30	Jan 94	Onboard
A1-H53CE-110-000 Airframe Maintenance Organizational Maintenance	Hard copy	30	Jan 94	Onboard
A1-H53CE-110-000 Airframes Maintenance, Model CH53E	Hard copy	30	Jan 94	Onboard
A1-H53CE-130-000 Landing Gear Systems Organizational Maintenance	Hard copy	30	Jan 94	Onboard
A1-H53CE-130-400 Landing Gear Systems Organizational Maintenance IPB	Hard copy	30	Jan 94	Onboard
A1-H53CE-140-000 Flight Control Systems (Manual) Organizational Maintenance	Hard copy	30	Jan 94	Onboard
A1-H53CE-150-000 Rotor Systems Organizational Maintenance	Hard copy	30	Jan 94	Onboard
A1-H53CE-220-000 Propulsion Systems Organizational Maintenance	Hard copy	30	Jan 94	Onboard
A1-H53CE-260-000 Transmission Systems Organizational Maintenance	Hard copy	30	Jan 94	Onboard
A1-H53CE-GAI-000 General Aircraft Information Manual Organizational Maintenance	Hard copy	30	Jan 94	Onboard
A1-H53CE-IPB-450 Numerical Index and Reference Designation Index Organizational Maintenance IPB	Hard copy	30	Jan 94	Onboard
A1-H53AD-POM-100 Principles of Operation Volume I Airframe	Hard copy	30	Jan 94	Onboard

IV.B.3. TECHNICAL MANUALS

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
A1-H53CE-SRM-000 Structural Repair Manual, Model CH53E	Hard copy	30	Jan 94	Onboard
A1-H53AD-TTM-100 Testing and Troubleshooting Procedures Manual Volume I Airframe Organizational Maintenance	Hard copy	30	Jan 94	Onboard
NA-01-1A-17 Aviation Hydraulics Manual Organizational, Intermediate and Depot Maintenance	Hard copy	30	Jan 94	Onboard

CIN, COURSE TITLE: C-646-9361, H-1 Armament Repair Integrated Organizational Maintenance, as part of track
M-646-2044

TRAINING ACTIVITY: HMT 303 FREST

LOCATION, UIC: Camp Pendleton, 55176

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
01-110HCE-2.1 Aircraft Survivability Avionics Equipment	Hard copy	5	Oct 93	Onboard
01-110HCE-2 UH-1N Maintenance Instructions	Hard copy	5	Oct 93	Onboard
01-110HCE-6-3 UH-1N Maintenance Cards	Hard copy	5	Oct 93	Onboard
01-110HCE-75 Airborne Weapons/Loading Manual	Hard copy	5	Oct 93	Onboard
01-110HCE-75-17 Conventional Weapons Checklist UH-1N Crew Served Guns	Hard copy	5	Oct 93	Onboard
01-H1AAC-2-1 AH-1W Helicopter General Information	Hard copy	5	Oct 93	Onboard
01-H1AAC-2-12-2.2.2 Armament Systems and Troubleshooting	Hard copy	5	Oct 93	Onboard
01-H1AAC-2-12.2.1 Armament Systems Testing and Troubleshooting	Hard copy	5	Oct 93	Onboard
01-H1AAC-2-12.2.3 Armament Systems Testing and Troubleshooting	Hard copy	5	Oct 93	Onboard
01-H1AAC-2-12.3 Armament Systems Maintenance	Hard copy	5	Oct 93	Onboard
01-H1AAC-2-12.4 Armament Systems IPB	Hard copy	5	Oct 93	Onboard
01-H1AAC-75 AH-1W Airborne Weapons Stores Loading Manual	Hard copy	5	Oct 93	Onboard

IV.B.3. TECHNICAL MANUALS

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
11-1-105 20 MM Barrel Erosion Gauge Kit	Hard copy	5	Oct 93	Onboard
11-45BB-7.1 20 MM Point and Suppressive Fire System Maintenance Instructions	Hard copy	5	Oct 93	Onboard
11-70DA-1 UH-1N Defensive Armament Subsystem A/A49E-11	Hard copy	5	Oct 93	Onboard
11-95-13 Aircraft Machine Gun, .50 Caliber, Organizational and Intermediate Maintenance Manual	Hard copy	5	Oct 93	Onboard
11-95GAU-1 Aircraft Machine Gun, & .63 MM, GAU-17	Hard copy	5	Oct 93	Onboard
11-95M197-1 M197 20 MM Automatic Gun, Organizational and Depot Level Maintenance Manual with IPB	Hard copy	5	Oct 93	Onboard
11-95M60-1 Machine Gun, M60 Model C & D, 7.62 MM	Hard copy	5	Oct 93	Onboard
11-95M89-1 M89 Declutching Feeder and M-89E1 Organizational Maintenance Instructions with IPB	Hard copy	5	Oct 93	Onboard
11-95MAU-1 Feeder Delinker, 7.62 MM, MAU-201/A, Organizational And Intermediate Maintenance Manual with IPB	Hard copy	5	Oct 93	Onboard
OPNAVINST 4790.2 (Series) Naval Aviation Maintenance Program	Hard copy	5	Oct 93	Onboard

PART V - MPT MILESTONES

COG CODE	MPT MILESTONES	DATE	STATUS
DA	Conducted Analysis of MPT Requirements	FY74	Completed
OPTEVFOR	Conducted OPEVAL	FY77	Completed
TSA	Awarded Production Contract	FY78	Completed
TSA	Delivered Technical Training Manuals	FY80	Completed
DA	Fleet Introduction Marine Corps	FY81	Completed
TSA	Conducted Initial Training	FY81	Completed
TSA	Conducted Training Services	FY81	Completed
TSA	Delivered Curricula Materials	FY81	Completed
TSA	Delivered Training Devices	FY81	Completed
TSA	Delivered TTE	FY81	Completed
TSA	Installed TTE	FY81	Completed
TSA	Began Follow-On Training	FY82	Completed
TSA	Distributed Draft NTP	Aug 91	Completed
TSA	Submitted Proposed NTP	Dec 91	Completed
OPO	Approved and Promulgated NTP	Feb 92	Completed
TSA	Promulgated Updated Draft NTP	May 95	Completed
OPO	Approved and Promulgated Updated NSTP	Nov 95	Completed
TSA	Developed Updated NTSP	Jan 00	Completed
TSA	Distributed Draft NTSP for fleet review	Jun 00	Completed
TSA	Submitted Proposed NTSP	Oct 00	Pending

PART VI - DECISION ITEMS / ACTION REQUIRED

DECISION ITEM OR
ACTION REQUIRED

COMMAND ACTION

DUE DATE

STATUS

None

PART VII - POINTS OF CONTACT

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SUMMARY OF COMMENTS

ON THE

CH-53D AND CH-53E AIRCRAFT

DRAFT NAVY TRAINING SYSTEM PLAN

OF JUNE 2000

N88-NTSP-A-50-7604G/D

AND

CH-53D AND CH-53E AIRCRAFT

PROPOSED NAVY TRAINING SYSTEM PLAN

OF OCTOBER 2000

N88-NTSP-A-50-7604G/P

Prepared by: ATC Terry Neuman, AIR-3.4.1
Contact at: (301) 757-8788
Date submitted: 1 February 2001

**COMMENTS / RECOMMENDATIONS ON THE
CH-53D AND CH-53E AIRCRAFT
DRAFT NAVY TRAINING SYSTEM PLAN
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**COMMENTS / RECOMMENDATIONS ON THE
CH-53D AND CH-53E AIRCRAFT
DRAFT NAVY TRAINING SYSTEM PLAN**

ACTIVITY NAME: OPNAV (N75K)

COMMENT: Responded no comments.

INCORPORATED: NA

REMARKS: NA

**COMMENTS / RECOMMENDATIONS ON THE
CH-53D AND CH-53E AIRCRAFT
DRAFT NAVY TRAINING SYSTEM PLAN**

ACTIVITY NAME: CINCPACFLT (N77)

COMMENT: CPF concurs with NTSP, no requested changes for both of the following NTSPs:

CH-53D and CH-53E
MH-53E

INCORPORATED: NA

REMARKS: NA

**COMMENTS / RECOMMENDATIONS ON THE
CH-53D AND CH-53E AIRCRAFT
DRAFT NAVY TRAINING SYSTEM PLAN**

ACTIVITY NAME: CNET (ETE-32)

COMMENT: Responded no comments.

INCORPORATED: NA

REMARKS: NA

**COMMENTS / RECOMMENDATIONS ON THE
CH-53D AND CH-53E AIRCRAFT
DRAFT NAVY TRAINING SYSTEM PLAN**

ACTIVITY NAME: CNET (ETE-32)

COMMENT: Throughout the document

Correct FREST to read Fleet Replacement Enlisted Skills Training.

INCORPORATED: YES

REMARKS: NA

COMMENT: Throughout the document

Correct NAMTRAGRU DET xxxx to read MTU-xxxx, NAMTRAU xxxxx. The correct address of each Maintenance Training Unit that needs to be corrected is as follows:

- (1) MTU-1007, NAMTRAU Oceana
- (2) MTU-1038, NAMTRAU Lemoore
- (3) MTU-3032, NAMTRAU Jacksonville
- (4) MTU-3033, NAMTRAU North Island

INCORPORATED: YES

REMARKS: NA

COMMENT: Throughout the document

There is no prerequisite for Marines who receive training for MOS 6113, 6132, and 6173. Marines go directly to HMT-302 FREST from Marine Combat Training (MCT). They do not attend any "A" school at NAS Pensacola.

INCORPORATED: YES

REMARKS: NA

**COMMENTS / RECOMMENDATIONS ON THE
CH-53D AND CH-53E AIRCRAFT
DRAFT NAVY TRAINING SYSTEM PLAN**

COMMENT: Page I-2,

MCAS Futenma, Okinawa is not listed

INCORPORATED: NO

REMARKS: The CH-53D squadrons are based at Marine Corps Base (MCB), Hawaii. MCAS Futenma is a deployment site.

COMMENT: Page I-4

The CH-53 has either the ARC-174 OR the ARC-94 radio set. Wording on this page states the ARC-174 AND ARC-94 radio sets.

INCORPORATED: YES

REMARKS: Changed “and” to “or”

COMMENT: Page I-4

The ARC-114 and the ARC-159 radio sets have long been replaced by the ARC-182 radio sets.

INCORPORATED: YES

REMARKS: Deleted ARC-114 and ARC-159

COMMENT: Pages I-18, II-49, III-6, and, IV-7

Entries concerning Aviation Ordnance are incorrect. OPNAV Aviation Training Management System (OATMS) states that track M-646-2044 covers UH-1N and AH-1W armament systems only. CH-53 ordnance personnel only receive "A"-school training. They do not attend track M-646-2044.

INCORPORATED: NO

REMARKS: According to Marine Corps Base Quantico, Training and Education Division's FY2001 Training Input Plan: All rotary wing ordnance personnel will attend “Rotary Wing (H-1 CH-46 CH-53) Armament Systems Maintenance” Track M-646-2044.

**COMMENTS / RECOMMENDATIONS ON THE
CH-53D AND CH-53E AIRCRAFT
DRAFT NAVY TRAINING SYSTEM PLAN**

COMMENT: Pages I-18, II-49, III-6, and IV-7

Ordnance personnel attend "A"-school class C-646-2012A at NAS Pensacola to receive MOS 6531 or MOS 6541.

INCORPORATED: NO

REMARKS: Ordnance Personnel will receive MOS 6531 or MOS 6541 after completion of "Rotary Wing (H-1 CH-46 CH-53) Armament Systems Maintenance" Track M-646-2044.

COMMENT: Page I-23

The new H-53 Powerplants I-level course will replace existing T-64 Engine I-level course. The new course is waiting for interim approval to teach.

INCORPORATED: YES

REMARKS: Added Note:

There is a new H-53 Powerplants I-level course which will replace this course. The new course is pending interim approval to teach.

COMMENT: Page I-25

Track M-602-5812 is no longer taught at HMT-302 FREST. All I-level, Rotary Wing Electrical Systems will be taught at HMT-303 FREST in Camp Pendleton The new class will convene during the first week of October 2000.

INCORPORATED: YES

REMARKS: NA

COMMENT: Page IV-10

Military Serial Number 985031-5707-01 is CH-53E AFCS Maintenance Trainer.

INCORPORATED: YES

REMARKS: NA

**COMMENTS / RECOMMENDATIONS ON THE
CH-53D AND CH-53E AIRCRAFT
DRAFT NAVY TRAINING SYSTEM PLAN**

COMMENT: Page IV-10

Military Serial Number 985031-5703-01 CH-53D AFCS Maintenance Trainer was not included.

INCORPORATED: YES

REMARKS: NA

COMMENT: Page IV-10,

Military Serial Number 980531-1301-01 is CH-53A/D Landing Gear and Ramp Maintenance Trainer.

INCORPORATED: YES

REMARKS: NA

COMMENT: Page IV-13

Track M-601-2722, Course is taught at HMT-302 vice HMT-302 FREST

INCORPORATED: YES

REMARKS: NA

COMMENT: Page IV-15

CH-53 ordnance personnel do not attend C-646-9361, H-1 Armament Repair Integrated Organizational Maintenance Course.

INCORPORATED: NO

REMARKS: According to Marine Corps Base Quantico, Training and Education Division's FY2001 Training Input Plan: All rotary wing ordnance personnel will attend "Rotary Wing (H-1 CH-46 CH-53) Armament Systems Maintenance" Track M-646-2044.

COMMENT: Pages IV-21 through IV-23

Technical publications are no longer A1-H53BE-series.

INCORPORATED: YES

REMARKS: Corrected with current series.

**COMMENTS / RECOMMENDATIONS ON THE
CH-53D AND CH-53E AIRCRAFT
DRAFT NAVY TRAINING SYSTEM PLAN**

COMMENT: Pages IV-23 and IV-24

Ordnance related manuals are not required.

INCORPORATED: No

REMARKS: According to Marine Corps Base Quantico, Training and Education Division's FY2001 Training Input Plan: All rotary wing ordnance personnel will attend "Rotary Wing (H-1 CH-46 CH-53) Armament Systems Maintenance" Track M-646-2044.

COMMENT: Page V-9

Correct the CH-53 Practical Job Trainer to read CH-53D practical Job Trainer.

INCORPORATED: YES

REMARKS: NA